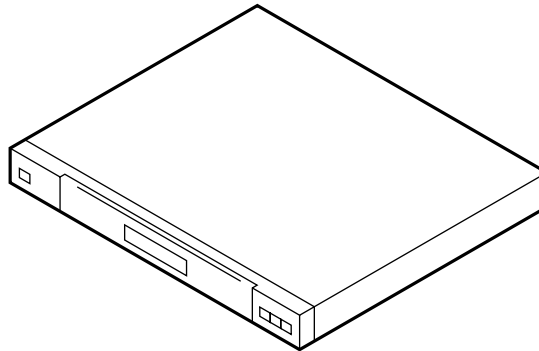


# DSC-1024HD

## SERVICE MANUAL

*US Model  
Canadian Model  
AEP Model*

Chassis No. SCC-J91B-A



### SPECIFICATIONS

Signal input		Video processing	
VIDEO 1 IN	Composite video/reference input	Capture range	Horizontal rate: 15.6 to 70 kHz, Vertical rate: 50 to 120 Hz
	BNC connector × 2 (loop-through), 75 ohms (automatic termination) NTSC <sub>3.58</sub> /PAL <sub>4.43</sub> , 1 Vp-p typical Black burst signal for the gen-lock function*	Preset signal	Input: 10 formats Output: 7 formats Gen-lock output: NTSC or PAL (See page 49.)
VIDEO 2 IN	S video (Y/C)	Video memory	1,152 × 1,152 × 24 bits (RGB total)
	4-pin mini DIN connector × 2 (loop- through), 75 ohms (automatic termination) Y: 1 Vp-p typical, sync negative C: 0.286 Vp-p (NTSC)/0.3 Vp-p (PAL) typical	Sampling rate	14.3 to 40 MHz offset phase max. (equivalent to 80 MHz sampling)
VIDEO 3 IN	RGB/component/composite video	Output pixel clock	14.3 to 50 MHz max.
	D-sub 15-pin, 3-row × 2 (loop- through), 75 ohms/high impedance R/G/B: 0.714 Vp-p H/V or composite sync: 1 to 5 Vp-p Y/B-Y/R-Y: 0.7 Vp-p (NTSC/PAL, sync on Y) Composite video: 1 Vp-p (NTSC <sub>3.58</sub> /PAL <sub>4.43</sub> )	General	
VIDEO 3 IN	RGB/component	Power requirements	100 to 120 V AC, 50/60 Hz, 0.4 A 200 to 240 V AC, 50 – 60 Hz, 0.25 A
	D-sub 15-pin, 3-row connector × 2 (loop-through), 75 ohms/high impedance R/G/B: 0.714 Vp-p (sync on G acceptable) H/V or composite sync: 1 to 5 Vp-p Y/B-Y/R-Y: 0.7 Vp-p typical (NTSC/PAL, sync on Y)	Power consumption	30 W (max. in operation) 3 W (power off)
AUDIO IN 1, 2, 3 (L/R) RCA pin jack, more than 10 kilohms 0 dBs (1 Vrms) max.		Operation temperature	0 to 35°C (32 – 95°F)
		Dimensions	424 × 44 × 354 mm (w/h/d) (16 3/4 × 1 3/4 × 14 inches) excluding bracket and legs
		Mass	Approx. 4.1 kg (9 lb 1 oz)
		Supplied accessories	AC power cord (1) Signal cable (1) Screws for mounting bracket kit MB- 510 (4)
Optional accessories			
		Rack mount bracket MB-510	
		SMF-400: D-sub 15-pin (male) to 5 BNC cable	
		SMF-401: D-sub 15-pin (male) to D-sub 15-pin (male) cable	
		Remote commander RM-854, RM-1271, RM-PJ1292, RM-PJ350	

#### \* Note on the gen-lock function

The reference signal should comply with SMPTE 170M (NTSC)  
or ITU-R624 (PAL).

– Continued on next page –



Digital Scan Converter  
**SONY**®

# DSC-1024HD

## Signal output

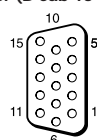
VIDEO OUT	Composite video BNC connector, 75 ohms typical NTSC <sub>3.58</sub> /PAL <sub>4.43</sub> , 1 Vp-p typical S video (Y/C) 4-pin mini DIN connector, 75 ohms typical Y: 1 Vp-p typical, sync negative C: 0.286 Vp-p (NTSC)/0.3 Vp-p (PAL) typical RGB/component D-sub 15-pin, 3-row connector, 75 ohms typical R/G/B: 0.714 Vp-p with external sync H/V or composite sync: TTL sync negative Y/B-Y/R-Y: 0.7 Vp-p typical (sync on Y)
AUDIO OUT (L/R)	RCA pin jack Audio gain: $\pm 1.0$ dB typical Total harmonic distortion: less than 1 %, 1 Vrms

## Signal assignment

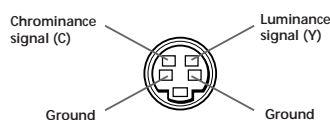
VIDEO 2 IN connector (D-sub 15-pin, 3-row)

VIDEO 3 IN connector (D-sub 15-pin, 3-row)

VIDEO OUT connector (D-sub 15-pin, 3-row)



Y/C IN/OUT connector (4-pin mini DIN)



Pin No.	Signal
1	Red video or R-Y
2	Green video, Y or composite video*
3	Blue video or B-Y
4	Ground
5	Ground
6	Red ground
7	Green ground
8	Blue ground
9	Not used
10	Ground
11	Ground
12	Not used
13	H sync or composite sync
14	V sync
15	Not used

## Preset signals

Indicator		Signal standards		
INPUT	OUTPUT	Name	Scan lines	Line rate/field rate
NTSC	NTSC	NTSC	525 lines total (interlaced)	15.73 kHz/59.94 Hz
PAL	PAL	PAL	625 lines total (interlaced)	15.63 kHz/50.00 Hz
OTHERS	—	HDTV 1920 × 1035 (Japan)	1035 lines active (interlaced)	33.75 kHz/59.94 Hz
31.5k	—	VGA Text	400 lines active (non-interlaced)	31.47 kHz/70.11 Hz
31.5k	31.5k	VGA 640 × 480	480 lines active (non-interlaced)	31.47 kHz/59.94 Hz
OTHERS	—	Mac 13" mode	480 lines active (non-interlaced)	35.00 kHz/66.67 Hz
37k	37k	VESA 800 × 600	600 lines active (non-interlaced)	37.88 kHz/60.32 Hz
OTHERS	—	Mac 16" mode	624 lines active (non-interlaced)	49.73 kHz/74.55 Hz
48k	48k	VESA 1024 × 768	768 lines active (non-interlaced)	48.36 kHz/60.00 Hz
64k	64k	VESA 1280 × 1024	1024 lines active (non-interlaced)	63.95 kHz/59.94 Hz
—	1080i	HDTV 1920 × 1080	1080 lines active (interlaced)	33.75 kHz/60 Hz, 59.94 Hz

• H. SYNC and V. SYNC of all the output signals are negative.

VESA is a registered trademark of Video Electronics Standards Association.

VGA and SVGA are registered trademarks of International Business Machines Corporation.

Mac (Macintosh) is a registered trademark of Apple Computer, Inc.

Design and specifications are subject to change without notice.

After correcting the original service problem, perform the following safety checks before releasing the set to the customer:

1. Check the area of your repair for unsoldered or poorly-soldered connections. Check the entire board surface for solder splashes and bridges.
2. Check the interboard wiring to ensure that no wires are "pinched" or contact high-wattage resistors.
3. Check that all control knobs, shields, covers, ground straps, and mounting hardware have been replaced. Be absolutely certain that you have replaced all the insulators.
4. Look for unauthorized replacement parts, particularly transistors, that were installed during a previous repair. Point them out to the customer and recommend their replacement.
5. Look for parts which, though functioning, show obvious signs of deterioration. Point them out to the customer and recommend their replacement.
6. Check the line cords for cracks and abrasion. Recommend the replacement of any such line cord to the customer.
7. Check the B+ and HV to see if they are specified values. Make sure your instruments are accurate; be suspicious of your HV meter if sets always have low HV.
8. Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC Leakage. Check leakage as described below.

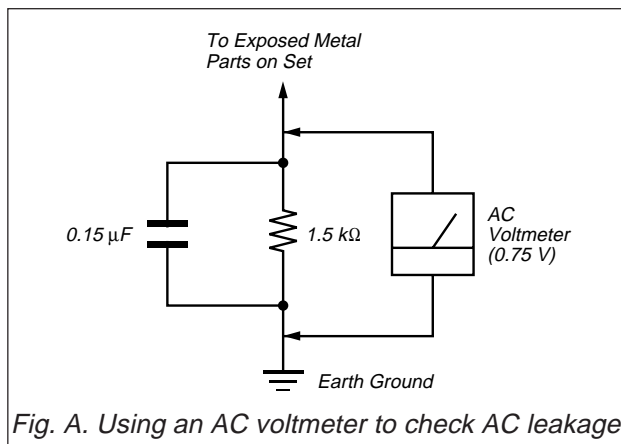


Fig. A. Using an AC voltmeter to check AC leakage.

## LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microamperes). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOMs that are suitable. Nearly all battery operated digital multimeters that have a 2 V AC range are suitable. (See Fig. A)

### WARNING!!

**NEVER TURN ON THE POWER IN A CONDITION IN WHICH THE DEGAUSS COIL HAS BEEN REMOVED.**

**SAFETY-RELATED COMPONENT WARNING!!**  
COMPONENTS IDENTIFIED BY SHADING AND MARK  $\Delta$  ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL FOR SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY. CIRCUIT ADJUSTMENTS THAT ARE CRITICAL FOR SAFE OPERATION ARE IDENTIFIED IN THIS MANUAL. FOLLOW THESE PROCEDURES WHENEVER CRITICAL COMPONENTS ARE REPLACED OR IMPROPER OPERATION IS SUSPECTED.

### AVERTISSEMENT!!

**NE JAMAIS METTRE SOUS TENSION QUAND LA BOBINE DE DEMAGNETISATION EST ENLEVÉE.**

### ATTENTION AUX COMPOSANTS RELATIFS À LA SÉCURITÉ!!

LES COMPOSANTS IDENTIFIÉS PAR UNE TRAME ET UNE MARQUE  $\Delta$  SONT CRITIQUES POUR LA SÉCURITÉ. NE LES REMPLACER QUE PAR UNE PIÈCE PORTANT LE NUMÉRO SPECIFIÉ. LES RÉGLAGES DE CIRCUIT DONT L'IMPORTANCE EST CRITIQUE POUR LA SÉCURITÉ DU FONCTIONNEMENT SONT IDENTIFIÉS DANS LE PRÉSENT MANUEL. SUIVRE CES PROCÉDURES LORS DE CHAQUE REMPLACEMENT DE COMPOSANTS CRITIQUES, OU LORSQU'UN MAUVAIS FONCTIONNEMENT EST SUSPECTÉ.

## TABLE OF CONTENTS

<u>Section</u>	<u>Title</u>	<u>Page</u>	<u>Section</u>	<u>Title</u>	<u>Page</u>
<b>1. GENERAL</b>		1-1	(8)	A Board (D/A ENCODER : 1/10)	4-23
<b>2. DISASSEMBLY</b>		2-1	(9)	A Board (CPU BLK : 7/10)	4-47
2-1.	Top Cover Removal	2-1	(10)	A Board (GEN-LOCK : 10/10)	4-35
2-2.	H1 and H2 Boards Removal	2-1	(11)	G Board (POWER SUPPLY)	4-55
2-3.	K1 and K2 Boards Removal	2-1	(12)	H1 Board	
<b>3. SOFTWARE</b>				(CONTROL SW, SIGNAL LAMP, SIRCS)	4-51
<b>(COLOR ADJUSTING, ETC.)</b>		3-1	(13)	H2 Board	
3-1.	Necessary Items	3-1		(CONTROL SW, SIGNAL LAMP)	4-12
3-2.	Purpose	3-1	(14)	K1 Board	
3-3.	Setting	3-1		(AUDIO IN/OUT, AUDIO INTER FACE)	4-57
3-4.	Operation	3-1	(15)	K2 Board	
3-5.	Color Adjustment Procedures	3-2		(VIDEO IN/OUT, VIDEO INTER FACE)	4-53
3-5-1.	Preparations	3-2	(16)	J1 Board (CONTROL SW)	4-12
3-5-2.	Confirming Operations	3-2	(17)	J2 Board (CONTROL SW)	3-12
3-5-3.	Adjustment of Reference Frequency	3-2	• Printed Wiring Boards		
3-5-4.	Adjustment of Subcarrier Frequency	3-2	(1)	A Board (Main Board)	4-15
3-5-5.	W/B Adjustment	3-2	(2)	G Board (POWER SUPPLY)	4-55
<b>4. DIAGRAMS</b>		4-1	(3)	H1 Board	
4-1.	Block Diagrams	4-1		(CONTROL SW, SIGNAL LAMP, SIRCS)	4-51
4-2.	Frame Schematic Diagram	4-7	(4)	H2 Board	
4-3.	Net Diagram (A Board)	4-9		(CONTROL SW, SIGNAL LAMP)	4-14
4-4.	Circuit Board Location	4-11	(5)	K1 Board	
4-5.	Schematic Diagrams and Printed			(AUDIO IN/OUT AUDIO INTER FACE)	4-57
	Wiring Boards	4-11	(6)	K2 Board	
• Schematic Diagrams				(VIDEO IN/OUT, VIDEO INTER FACE)	4-53
(1)	A Board (COMB FILTER : 9/10)	4-19	(7)	J1 Board (CONTROL SW)	4-14
(2)	A Board (I/O DECODER : 2/10)	4-27	(8)	J2 Board (CONTROL SW)	4-14
(3)	A Board (LPF BLK : 8/10)	4-39	4-6.	SEMICONDUCTORS	4-58
(4)	A Board (A/D : 3/10)	4-31	<b>5. EXPLODED VIEWS</b>		5-1
(5)	A Board (R-MEM BLK : 4/10)	4-41	5-1.	Chassis	5-1
(6)	A Board (G-MEM BLK : 5/10)	4-43	5-2.	Packing Materials	5-2
(7)	A Board (B-MEM BLK : 6/10)	4-45	<b>6. ELECTRICAL PARTS LIST</b>		6-1

The operating instructions mentioned here are partial abstracts from the Operating Instruction Manual. The page numbers of the Operating Instruction Manual remain as in the manual.

## SECTION 1 GENERAL

### Generator lock (Gen-lock)

When you use this unit with your video editing system, the output NTSC or PAL signal can be locked to a reference signal (black burst video).

### Aspect ratio display

The aspect ratio of the converted picture is displayed on the screen as you zoom the picture or change the picture size.

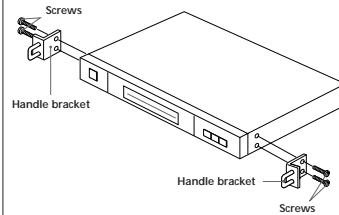
### Other features

- Three dimensional comb filter for NTSC Y/C separation
- Line correlation comb filter for PAL Y/C separation
- Up to  $\times 4$  zooming
- Accepts infrared or wired Sony remote commanders using SIRC code
- On-screen display in five languages for user-friendly access
- Built-in test patterns for display alignment
- Three sets of video inputs with audio inputs: one composite video or Y/C input, one composite video or RGB/component input, and one RGB/component input
- Memory function for storage of up to five operation settings
- Automatic input signal detection with indication
- Self-adjusting for uniform output signal
- EIA rack mounting
- Selectable setup level (black reference level) for the output NTSC signal

### Rack mounting

You can mount the unit on a 19-inch EIA standard rack using the optional MB-510 mounting bracket kit.

- 1 Attach the handle brackets with the four screws included with this unit.



- 2 Remove the four legs from the bottom of the unit.

- 3 Mount the unit into a 19-inch standard rack.

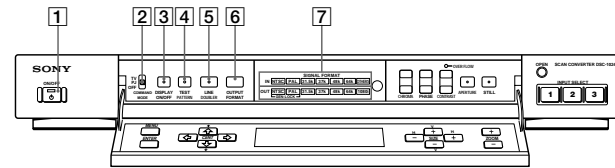
#### Caution

Do not hold the handle brackets to carry the unit. If you do, the unit may separate from the handle brackets.

English

## Location and function of parts and controls

### Front panel



- 1 **ON/OFF (power) switch and indicator**

Press to turn the unit on and off.  
The indicator on the switch lights when the unit is turned on.

- 2 **COMMAND MODE selector**

When using the remote commander supplied with the Sony monitor or TV, set it to TV.  
When using the remote commander supplied with the Sony projector, set it to PJ.  
When not using the remote commander, set to OFF.

- 3 **DISPLAY ON/OFF button and indicator**

Press this button to turn on the indicator (DISPLAY ON) to display the current operating mode on the screen.  
Press it again to turn off the indicator to eliminate the display (DISPLAY OFF).

#### Note

The main menu appears by pressing the MENU button, even if the DISPLAY OFF mode is selected.

- 4 **TEST PATTERN button and indicator**

Press this button to turn on the indicator to display the test pattern on the screen.  
To turn off the test pattern, press the TEST PATTERN button repeatedly until no test pattern is displayed, or press the ON/OFF, INPUT SELECT or OUTPUT FORMAT button.

- 5 **LINE DOUBLER button and indicator**

When the input signal format is NTSC or PAL, press this button to turn on the indicator and activate the line doubler function. Press it again to turn off the indicator and cancel the line doubler function.

- 6 **OUTPUT FORMAT button**

Press this button to select the desired output signal format.  
The selected output signal indicator lights.

- 7 **SIGNAL FORMAT indicators**

SIGNAL FORMAT							
IN	NTSC	PAL	31.5k	37k	48k	64k	OTHERS
OUT	NTSC	PAL	31.5k	37k	48k	64k	1080i
GEN-LOCK							

#### IN indicators (upper)

Shows the input signal format that the unit automatically detected.  
31.5k, 37k, 48k and 64k indicate the horizontal scanning frequencies. If the horizontal scanning frequency of the input signal detected is one of these values  $\pm 1$  kHz, the corresponding indicator lights. If another value is detected, the OTHERS indicator lights.

#### OUT indicators (lower)

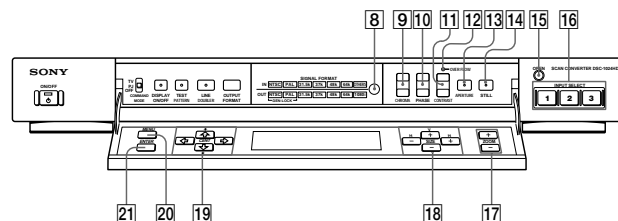
Shows the output signal format selected by the OUTPUT FORMAT button. The output signal format shown by each indicator is as follows:

OUT indicator	Format name
NTSC	NTSC
PAL	PAL
31.5k	VGA 640 $\times$ 480
37k	VESA 800 $\times$ 600
48k	VESA 1024 $\times$ 768
64k	VESA 1280 $\times$ 1024
1080i	HDTV 1920 $\times$ 1080

For specifications of each format, see "Preset signals" on page 49.

#### GEN-LOCK indicator

When the output signal format is PAL or NTSC and GEN LOCK is set to ON on the menu screen, the GEN-LOCK indicator lights or flashes.



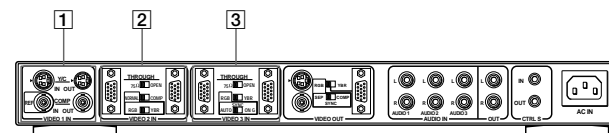
- 8 Remote sensor**  
Receives the beam from the remote commander.
- 9 CHROMA +/- button**  
Press to adjust the picture chroma level.
- 10 PHASE +/- button**  
Press to adjust the picture phase level.
- 11 CONTRAST +/- button**  
Press to adjust the picture contrast.
- 12 OVERFLOW indicator**  
This indicator lights when input signal level is excessive.
- 13 APERTURE button and indicator**  
Press this button to turn on the indicator to make the picture sharper. Press it again to turn off the indicator for a softer picture.
- 14 STILL button and indicator**  
Press this button to turn on the indicator to get a still picture. Press it again to turn off the indicator to resume the normal screen.
- 15 OPEN button**  
Press to open the front cover.
- 16 INPUT SELECT buttons**  
Press to select the input signal.  
 1: to select the input source connected to the VIDEO 1 IN (Y/C or COMP) connector and the AUDIO 1 IN connector.  
 2: to select the input source connected to the VIDEO 2 IN (RGB, YBR\* or COMP) connector and the AUDIO 2 IN connector.  
 3: to select the input source connected to the VIDEO 3 IN (RGB or YBR\*) connector and the AUDIO 3 IN connector.
- 17 ZOOM +/- buttons**  
Press the + button to zoom up, and the - button to zoom down.
- 18 SIZE V/H +/- buttons**  
Press to adjust the size of the picture.  
 V+: to expand the vertical size  
 V-: to reduce the vertical size  
 H+: to expand the horizontal size  
 H-: to reduce the horizontal size
- 19 CENT/0/9/0/0 buttons/cursor buttons**  
Press to shift the picture in the direction of the arrow. The 0 and 9 buttons are also used for moving the cursor on the menu screen.
- 20 MENU button**  
Press to make the menu appear, or quit the menu.
- 21 ENTER button**  
Press to select the desired item in a menu.

\* YBR is an abbreviation of Y/B-Y/R-Y component signal.

English

## Location and function of parts and controls (continued)

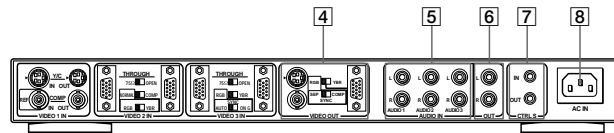
### Rear panel



- 1 VIDEO 1 IN connector section**  
Two sets of video inputs and loop-through outputs.  
**Y/C IN (4-pin):**  
Connect to the Y/C output of video equipment. This connector has a priority over the COMP IN connector, if both connectors are used.  
**COMP IN/REF (BNC type):**  
Connect to the composite video output of video equipment. Also, input the reference signal for the gen-lock (black burst signal) to the VIDEO 1 IN REF connector.  
**Y/C OUT (4-pin):**  
Loop-through output of the Y/C IN connector.  
**COMP OUT (BNC type):**  
Loop-through output of the COMP IN connector.
- 2 VIDEO 2 IN connector section**  
A set of composite video or RGB/component (Y/B-Y/R-Y) signal inputs and loop-through outputs.
- 3 VIDEO 3 IN connector section**  
A set of RGB or component (Y/B-Y/R-Y) signal inputs and loop-through outputs.  
**RGB/component input (D-sub 15-pin, 3-row):**  
Connect one of the D-sub connectors to the RGB or the component (Y/B-Y/R-Y) outputs of video equipment. The other D-sub connector is a loop-through output.  
**Termination switch:**  
When nothing is connected to the loop-through output connector, set to 75Ω. When the loop-through output connector is used, set to OPEN.  
**RGB/YBR\* selector:**  
Set to RGB or YBR according to the format of the signal input to the D-sub connector.  
**SYNC selector:**  
Normally set to AUTO. Set to ON G to use the sync signal on green channel when both external sync signal and sync on green signal are input.

\* YBR is an abbreviation of Y/B-Y/R-Y component signal.

**Composite video/RGB/component input (D-sub 15-pin, 3-row):**  
Connect one of the D-sub connectors to the composite video, RGB or component (Y/B-Y/R-Y) outputs of video equipment. The other D-sub connector is a loop-through output.  
**Termination switch:**  
When nothing is connected to the loop-through output connector, set to 75Ω. When the loop-through output connector is used, set to OPEN.  
**NORMAL/COMP (composite) input selector:**  
Usually set to NORMAL when RGB or component signal is input to the D-sub connector. Set to COMP when composite video signal is input.  
**RGB/YBR\* (RGB/component) input selector:**  
Set to RGB or YBR according to the format of the signal input to the D-sub connector.



#### 4 VIDEO OUT connector section

Three sets of video outputs. The converted signal is output from this section.

##### Y/C output (4-pin):

Connect to the Y/C input of video equipment. Only the NTSC or PAL signal is output from this connector.

##### Composite video output (BNC type):

Connect to the composite video input of video equipment. Only the NTSC or PAL signal is output from this connector.

##### RGB/component output (D-sub 15-pin, 3-row):

Connect to the RGB or component (Y/B-Y/R-Y) inputs of video equipment.

##### RGB/YBR output selector:

Set this selector depending on the format of the signal output from the D-sub connector. YBR is effective when the NTSC or PAL signal is output.

##### SYNC output selector:

Select the sync signal for the RGB output. Set to SEP to use separate horizontal/vertical sync signal. Set to COMP to use the composite sync signal.

#### 5 AUDIO IN L/R jacks (RCA pin)

Three sets of audio inputs.

Connect to the audio output jacks of equipment. If the input source is monaural, connect it to the L jack only. You can select the audio input with the INPUT SELECT buttons on the front panel.

#### 6 AUDIO OUT L/R jacks (RCA pin)

A set of audio outputs.

Connect to the audio input jacks of equipment.

#### 7 CTRL S IN/OUT jacks (minijack)

Connect to the CONTROL S jacks of other Sony equipment. It is then possible to control the whole system with a single remote commander.

When a plug is connected to the CTRL S IN jack, the remote sensor on the front panel becomes inactive.

#### 8 AC IN connector

Connect the supplied power cord.

English

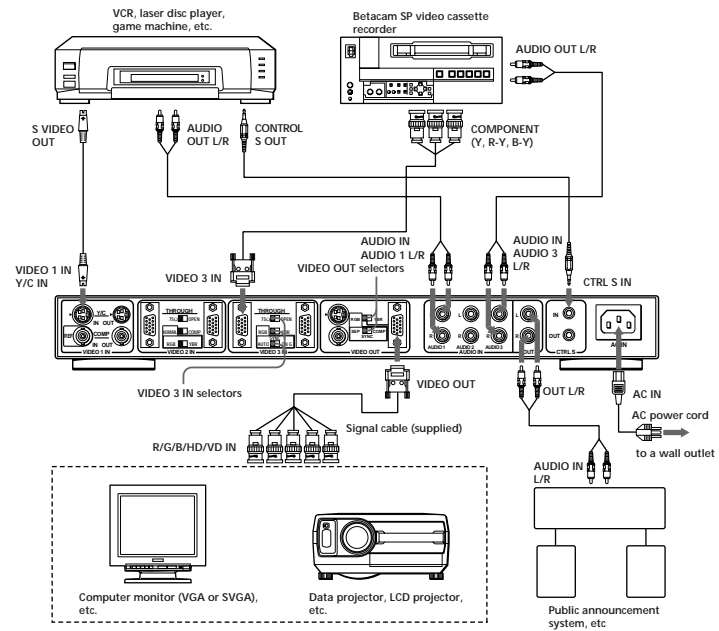
## Hookups

### Before you get started

- First make sure that the power to each piece of equipment is turned off.
- Use connecting cables suitable for the equipment to be connected.
- The cable connectors should be fully inserted into the jacks. A loose connection may cause hum and other noise.
- To disconnect the cable, pull out by grasping the plug. Never pull the cable itself.
- Read the instruction manual of the equipment to be connected.

### Hookup for getting the up-converted signal

The following diagram shows a connection example to convert a low-rate input signal into a high-rate output signal.



### Setting the VIDEO OUT selectors

- Set the RGB/YBR selector to RGB (when a computer monitor, data projector or LCD projector is connected).
- Set the SYNC selector to SEP (HD or VD separate sync) or COMP (composite sync) depending on the connected equipment.

### When the Betacam SP video cassette recorder is connected to VIDEO 3 IN

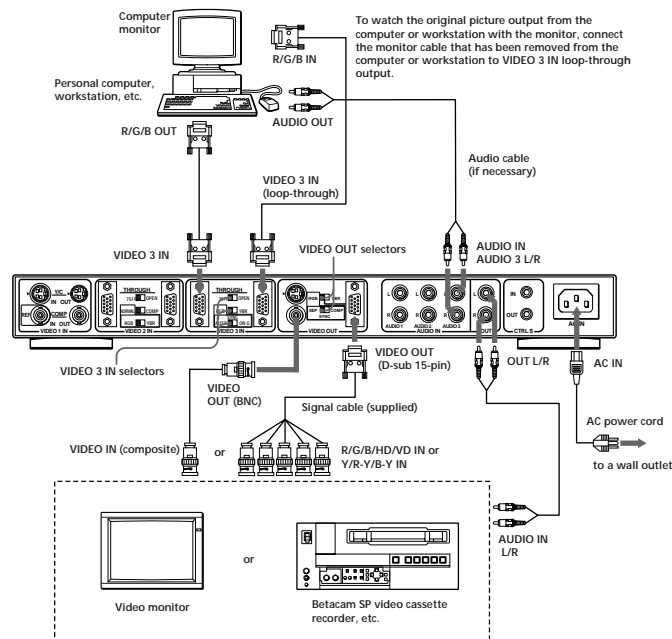
Set the VIDEO 3 IN selectors as follows:

- 75  $\Omega$  / OPEN selector  $\rightarrow$  75  $\Omega$
- RGB/YBR selector  $\rightarrow$  YBR
- SYNC selector  $\rightarrow$  AUTO

Connect only the three plugs of the signal cable to the Betacam SP video cassette recorder: green plug to Y connector, red to R-Y, and blue to B-Y. Leave the other plugs, if provided, disconnected.

## Hookup for getting the down-converted signal

The following diagram shows a connection example to convert a high-rate input signal into a low-rate output signal.



### Setting the VIDEO OUT selectors

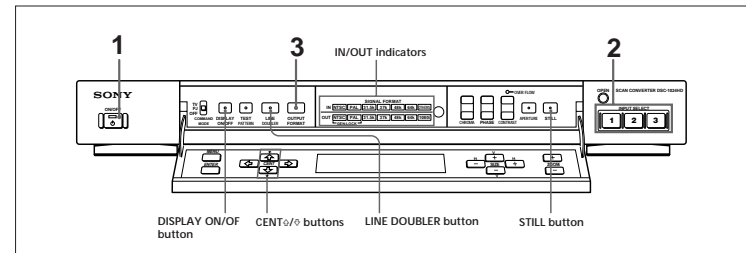
- Set the RGB/YBR selector to RGB when a video monitor or video projector is connected.
- Set it to YBR when a Betacam SP video cassette recorder is connected.
- Set the SYNC selector to SEP (HD or VD separate sync) or COMP (composite sync) depending on the connected equipment.

### When the computer monitor is connected to the VIDEO 3 IN loop-through output

Set the VIDEO 3 IN selectors as follows:

- 75  $\Omega$  / OPEN selector  $\rightarrow$  OPEN
  - RGB/YBR selector  $\rightarrow$  RGB
  - SYNC selector  $\rightarrow$  AUTO or ON G depending on the connecting equipment
- For Macintosh and Silicon Graphics Inc. computers, set to ON G.

## Watching the converted picture



### Before you start

- Turn on the connected equipment and play a video source.
- To display the information on the current operation on the screen, make sure the indicator of the DISPLAY ON/OFF button is lit. If not, press the DISPLAY ON/OFF button.
- To set the on-screen language to yours, see page 46.

### Converting the picture

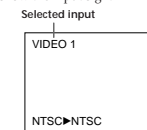
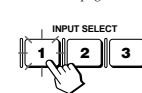
#### 1 Press the ON/OFF switch.

The indicator of the ON/OFF switch and all the three INPUT SELECT buttons light.



#### 2 Select the input source to be converted by pressing the INPUT SELECT button.

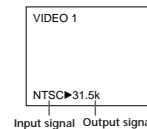
The pressed button lights brighter than the others, and the input signal indicator lights to show the input signal format (see page 49).



#### 3 Select the desired output signal format by pressing the OUTPUT FORMAT button repeatedly.

The selected output signal indicator lights. The output signal is switched a few seconds after you release the button.

For the specification of each output format, see page 49.



### Using the line doubler

The line doubler function of this unit converts the input NTSC or PAL signal into a digitally interpolated, high scan-rate output signal. The output signal format becomes a non-interlaced signal whose horizontal frequency is 31.5 kHz and vertical frequency is synchronized to the input signal. The line doubler up-converts the signal field by field by interpolating information on two line signals vertically. Therefore, a fast moving picture is reproduced as a natural high-resolution picture.

- The converted signal is output from the RGB/component output connector in the RGB format.
- The line doubler can be activated for the three inputs separately.

### Activating the line doubler

#### 1 Press the OUTPUT FORMAT button to select 31.5k.

#### 2 Connect a NTSC or PAL signal source and select the input with the INPUT SELECT buttons.

#### 3 Press the LINE DOUBLER button.

The indicator of the button lights, and the NTSC and 31.5k or the PAL and 31.5k OUT indicators light.



When the input source is NTSC

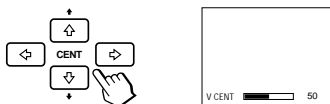


When the input source is PAL





- 4 Adjust the position of the picture by pressing the CENT  $\leftarrow/\rightarrow$  buttons.



#### To deactivate the line doubler

Press the LINE DOUBLER button again to turn off the indicator of the button. The 31.5k output format is restored.

#### Notes

- If you press the LINE DOUBLER button when the input source is not NTSC or PAL or the output format is not 31.5k, "NOT APPLICABLE" appears on the screen and the LINE DOUBLER button does not function.
- When the line doubler is activated, the ZOOM, SIZE, APERTURE and TEST PATTERN buttons do not function.
- When the line doubler is activated, the picture size is the same as the original one.
- When you use the line doubler function, we recommend the input source video equipment equipped with the TBC (time base corrector). If you activate the line doubler for the signal without the TBC and display the converted signal with a multi-scan monitor, the picture may disappear due to disturbance of the sync signal.

#### Watching a still picture

When a moving picture is displayed, press the STILL button to set STILL on the screen to ON. The output signal is displayed as a still picture. The indicator of the STILL button lights.



To resume the normal screen, press the STILL button again.

#### Note

In the still picture mode, only the ON/OFF switch, and the INPUT SELECT, OUTPUT FORMAT, LINE DOUBLER, TEST PATTERN, MENU, ENTER and CENT  $\leftarrow/\rightarrow$  buttons will function. If you press any other button, "NOT APPLICABLE" appears on the screen.

#### Getting rid of on-screen information

When the indicator of the DISPLAY ON/OFF button is lit, the information on the operation you performed is displayed on the screen for a few seconds.

To get rid of the on-screen display, press the DISPLAY ON/OFF button to set DISPLAY on the screen to OFF.

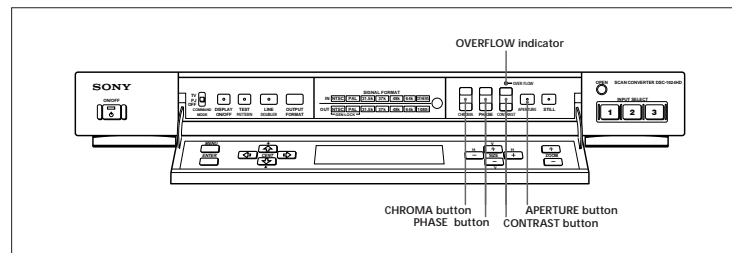


#### Note

Even if DISPLAY is set to OFF, only the main menu appears when you press the MENU button.

English

## Adjusting the picture



While watching the picture, you can adjust contrast, phase, chroma and aperture to suit your taste. The adjustments can be carried out for the three inputs separately. The adjusted levels are stored in memory.

#### Adjusting the contrast, phase, and chroma

Press the desired adjustment button: CONTRAST, PHASE, or CHROMA.

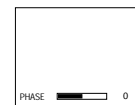
The adjustment levels are displayed on the screen.

#### CONTRAST



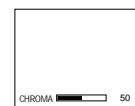
+: to increase picture contrast  
-: to decrease picture contrast

#### PHASE



+: to make overall picture greenish  
-: to make overall picture purplish

#### CHROMA



+: to increase color intensity  
-: to decrease color intensity

#### Notes

- CHROMA and PHASE controls do not function for the RGB input signal.
- PHASE control does not function for the component (Y/B-Y/R-Y) input signal.
- PHASE control does not function with PAL color source. If you press these buttons, "NOT APPLICABLE" appears on the screen.

#### Adjusting the aperture

To make the picture sharper, press the APERTURE button to set APERTURE on the screen to ON. The indicator of the APERTURE button lights.

To make the picture softer, press the APERTURE button again to set APERTURE to OFF.

The factory setting is APERTURE OFF for the NTSC or PAL video input, or APERTURE ON for the other inputs.



#### Note

When the output signal format is an interlaced signal such as NTSC and PAL, setting APERTURE OFF reduces line flickers although the image contour becomes slightly blurred.

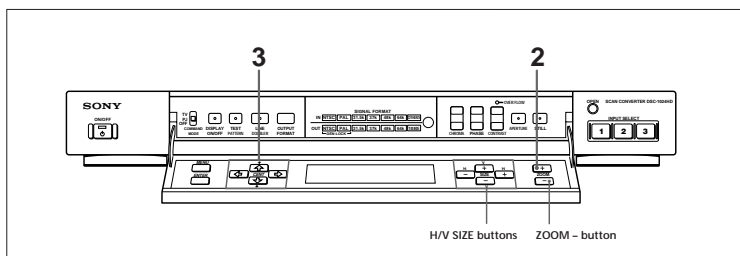
#### If the input signal level is excessive

The OVERFLOW indicator lights. In this case, check that the 75  $\Omega$  / OPEN selector and the RGB/YBR selector in the VIDEO 3 connector section are set correctly. If they are correct, press the CONTRAST - button.

#### Restoring the factory preset contrast, phase and chroma levels

Use COLOR RESET on the MENU 1 screen. (See page 41.)

## Zooming and resizing the picture



You can zoom up the picture making it 2, 3 or 4 times larger than the original size.  
You can also shift the position of the picture so that it fits in the screen, or adjust the vertical and horizontal size of the picture separately.  
The adjustments can be carried out for the three inputs separately.

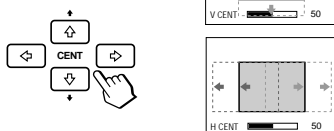
### Zooming up the picture

- 1 Display the picture on the screen.
- 2 Press the ZOOM + button.



Each time you press the ZOOM + button, the picture is magnified by 2, 3 and 4 times respectively.  
To zoom down, press the ZOOM - button.

- 3 Adjust the position of the close-up picture by pressing the CENT  $\updownarrow$  buttons.  
 $\updownarrow$ : to shift the picture upward/downward (V CENT)  
 $\leftarrow \rightarrow$ : to shift the picture to the right/left (H CENT)

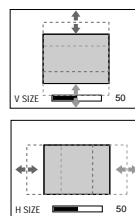
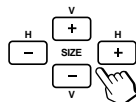


The position of the picture is indicated on the screen by the adjustment bar and value 0 to 100. The factory preset value is 50.

### Resizing the picture

Press the H/V SIZE +/- buttons to resize the picture.

V SIZE +: to expand vertical size  
V SIZE -: to reduce vertical size  
H SIZE +: to expand horizontal size  
H SIZE -: to reduce horizontal size

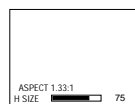


The size of the picture is indicated on the screen by the adjustment bar and value 0 to 100. The factory preset value is 50 (except the HDTV or 64 k input).

### Aspect ratio display

As the picture size changes by the H/V SIZE button, the unit calculates the aspect ratio of the converted picture and displays it in decimal values on the screen together with the adjustment bar and value.

Example: 4 : 3 is displayed 1.33 : 1  
16 : 9 is displayed 1.78 : 1



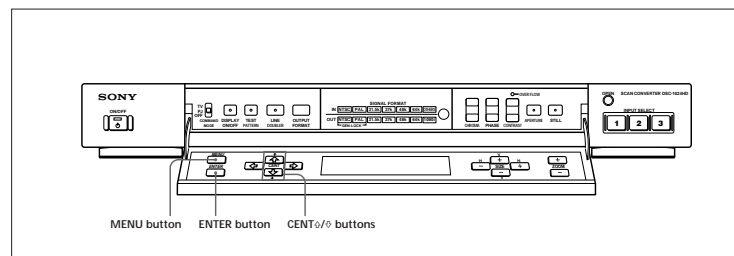
### Note

The aspect ratio is displayed only when a preset signal is input. If an HDTV signal is input, the aspect ratio is displayed based on the Japanese HDTV standard (1920x1035). For the preset signals, see page 49.

### Restoring the original picture size and position

Use GEOM RESET on the MENU 1 screen. (See page 41.)

## Using the memory



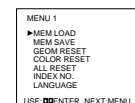
You can store the parameters of the adjusted picture into memory. Five sets of input/output selection, zooming size, H/V size and H/V position can be stored into memory and switched quickly.  
Up to 5 memories are available.

### Storing the current condition

- 1 Adjust the picture as necessary.

- 2 Press the MENU button.

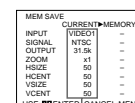
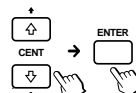
The MENU 1 screen appears.



- 3 Press the CENT  $\updownarrow$  button to move the cursor (►) to MEM SAVE, and press the ENTER button.

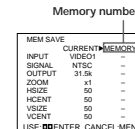
The MEM SAVE screen appears.

The current data is displayed on the left column under "CURRENT" and the data in the memory on the right column. If no data is stored in the memory, that item is shown by "-".



Current data

- 4 Press the CENT  $\updownarrow$  button repeatedly so that the desired memory number (1 to 5) appears.



Memory number

- 5 Press the ENTER button.

The current data is stored under the selected memory number on the right column.

If any data has been stored in the selected memory number, it is now displayed on the left column under "CURRENT."



MEM SAVE		CURRENT	MEMORY1	MEMORY2	MEMORY3
INPUT	VIDEO1	VIDEO1	VIDEO1	VIDEO1	VIDEO1
SIGNAL	NTSC	NTSC	NTSC	NTSC	NTSC
OUTPUT	31.5k	31.5k	31.5k	31.5k	31.5k
ZOOM	x1	x1	x1	x1	x1
HSIZE	50	50	50	50	50
HCENT	50	50	50	50	50
VSIZE	50	50	50	50	50
VCENT	50	50	50	50	50
USE		ENTER	CANCEL	MENU	MENU

Current data stored

- 6 To quit the menu, press the MENU button three times.

### Calling up the stored data

- 1 Press the MENU button.

The MENU 1 screen appears.

- 2 Press the CENT  $\updownarrow$  button to move the cursor (►) to MEM LOAD, and press the ENTER button.

The MEM LOAD menu appears.

MEM LOAD		MEMORY1	CURRENT	MEMORY2
INPUT	VIDEO1	VIDEO1	VIDEO1	VIDEO1
SIGNAL	NTSC	NTSC	NTSC	NTSC
OUTPUT	31.5k	31.5k	31.5k	31.5k
ZOOM	x1	x1	x1	x1
HSIZE	50	50	50	50
HCENT	50	50	50	50
VSIZE	50	50	50	50
VCENT	50	50	50	50
USE		ENTER	CANCEL	MENU

- 3 Press the CENT  $\updownarrow$  button repeatedly to select the desired memory number (1 to 5), and press the ENTER button.

The converter is adjusted to the selected memory data.

- 4 To cancel the operation, press the MENU button twice.

### To call up the stored data quickly

Use the remote commander. See "Direct memory loading" on page 42.

## Using the test pattern

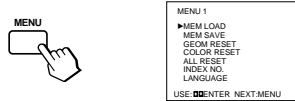
### Resetting the data to the factory preset levels

There are three options for resetting the adjustment data to the factory preset levels.

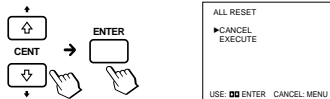
- GEOM RESET: Resets ZOOM, H/V SIZE and H/V CENT currently in use.  
 COLOR RESET: Resets CONTRAST, PHASE and CHROMA currently in use.  
 ALL RESET: Resets all user adjustment items to the factory preset data and clears the memory contents.

The operation procedures are the same for the three options.

- 1 Press the **MENU** button.  
The MENU 1 screen appears.



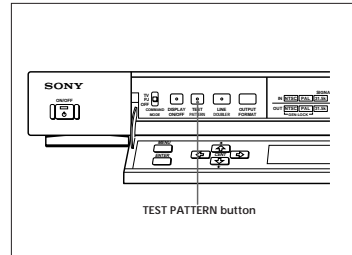
- 2 Press the **CENT** button to move the cursor (▶) to **GEOM RESET**, **COLOR RESET** or **ALL RESET**, and press the **ENTER** button.



- 3 Press the **CENT** button to move the cursor to **EXECUTE**, and press the **ENTER** button.  
The adjustment data are reset to the factory preset levels.

#### To cancel resetting

Press the **MENU** button, or select **CANCEL** in step 3 above and press the **ENTER** button.



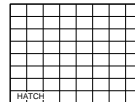
You can use the built-in test patterns to adjust the monitor or projector screen.

#### Press the TEST PATTERN button.

Each time you press TEST PATTERN, the following test patterns appear in sequence:  
 Hatch → Box → Color bar → Gray scale → OFF (input signal) → Hatch → ...



Example: Hatch



The selected test pattern name is displayed on the screen for about 3 seconds.

#### To restore the normal screen

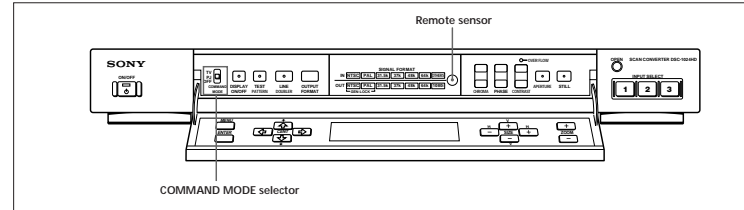
Press the TEST PATTERN button repeatedly until no test pattern is displayed. Pressing the ON/OFF switch, INPUT SELECT buttons or OUTPUT FORMAT button also restores the normal screen.

#### Note

When the test pattern is displayed, only the ON/OFF switch, and the INPUT SELECT, OUTPUT FORMAT, MENU and CENT buttons will function.

English

## Using the remote commander



This unit accepts wireless or wired remote commanders for Sony monitors, TVs and projectors.

### Setting the type of the remote commander

Set the **COMMAND MODE** selector according to the type of the remote commander.

TV: Sony monitors' or TVs' commander  
 PJ: Sony projectors' commander

OFF: When not using the remote commander, set to this position to avoid malfunction.



### Available remote commander operations

The following operations can be controlled by the remote commander.

- Power on / off
- Input selection
- Picture adjustments: contrast, phase and chroma
- On-screen display on / off (only for video monitors and TVs)
- Menu operations (See the right column.)
- Direct memory loading (See the right column.)

The available operations and the buttons to be used for each operation are limited depending on each remote commander. See the table below.

### Direct memory loading

The remote commander can quickly call up the adjustment data stored in the memory.

- 1 Press buttons **7**, **7**, **7** and **ENTER** on the remote commander in sequence at intervals of one second. The "MEMORY LOAD READY" appears on the screen.
- 2 Select the memory number (**1** to **5**) you want to call up using the number button.  
The converter is adjusted to the selected memory data.

### To cancel the operation

Press buttons **0**, **0**, **0** and **ENTER** on the remote commander in sequence at intervals of one second. The "MEMORY LOAD EXIT" appears on the screen. The direct memory load operation is also cancelled by turning off the unit.

#### Note

Be sure to press buttons **7**, **7**, **7** and **ENTER**, or **0**, **0**, **0** and **ENTER** at intervals of about one second. If more than 3 seconds elapse between two presses, the operation will be cancelled. In this case, start again.

### Menu operation using the remote commander

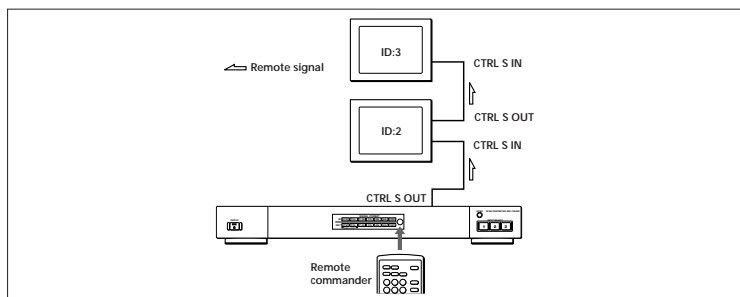
The menu screens for the remote commander are different from those for the main unit.

When you press the menu button (**MENU**, **PAGE** or ◀) on the remote commander once or twice, the **GEOM MENU** or **COLOR MENU** appears respectively.

Select the item with the ↑/↓ button and press the enter button (**ENTER**, ▶ or **M SEL**) on the remote commander. Then adjust the selected item using the ↑/↓ button.

Remote commander model	RM-854	RM-1271	RM-PJ1292	RM-PJ350	RM-PJC520
<b>COMMAND MODE setting</b>					
	TV	PJ	PJ	PJ	PJ
Input selection	INPUT SELECT 1	LINE1	VIDEO	VIDEO	VIDEO1
	INPUT SELECT 2	LINE2	A	A	VIDEO2
	INPUT SELECT 3	LINE3	B	B	RGB
Menu operation	MENU	MENU	PAGE or ◀	PAGE or ◀	PAGE
	ENTER	ENTER	→	→	M SEL
	CENT ◀	↑	↑	↑	↑
	CENT ▶	↓	↓	↓	↓
Picture adjustment	CONTRAST	CONTRAST	CONTR	CONTR	CONTR
	CHROMA	CHROMA	COLOR	COLOR	—
	PHASE	PHASE	HUE	HUE	—

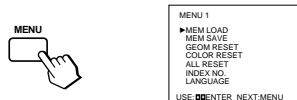
## Operating a specific unit with the remote commander



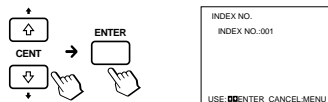
When multiple pieces of Sony equipment are connected via the CTRL S jack, you can operate a specific piece of equipment by assigning the index number preset for each piece of equipment on the converter, and then on the remote commander. For presetting the index number on each piece of equipment, refer to the Instruction Manual of the equipment. The following explanation is an example of use of the RM-854 remote commander.

### Assigning the index number on the converter

- 1 Press the MENU button once.  
The MENU 1 screen appears.



- 2 Press the CENT  $\Delta/\nabla$  button to move the cursor ( $\blacktriangleright$ ) to INDEX NO. and press the ENTER button.  
The INDEX NO. screen appears.



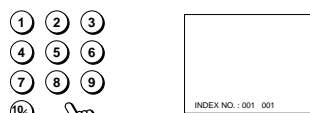
- 3 Press the CENT  $\Delta/\nabla$  button repeatedly to select the index number (1 to 255) of the equipment you want to control, and press the ENTER button.
- 4 To quit the menu, press the MENU button three times.

### Operating the equipment with the RM-854 remote commander

- 1 Press the ID MODE ON button on the remote commander.  
The index numbers appear on all the pieces of equipment including the converter.



- 2 Input the index number of the equipment you want to operate using 0-9 buttons of the remote commander.  
The input number appears right next to each equipment own index number.



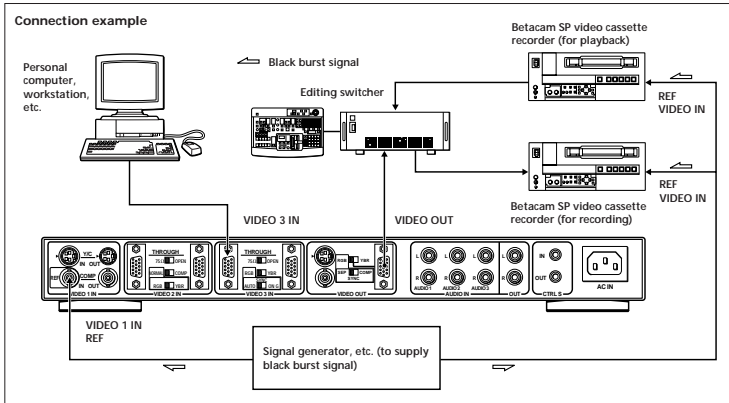
- 3 Press the ID MODE SET button.  
The character on the selected equipment changes to cyan while others change to red.



Now you can operate only a specified equipment (All operations available in ID mode except POWER ON/OFF).

English

## Using the generator lock (gen-lock)

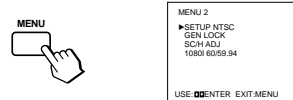


The output NTSC or PAL signal can be synchronized using the black burst signal input from a signal generator, etc. as a reference signal (gen-lock). This enables smooth editing without transition noise when multiple video sources are used.

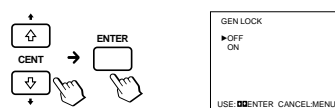
### Activating the generator lock

- 1 Input the reference signal which corresponds with the output signal format (NTSC or PAL) from the editor or signal generator to the VIDEO 1 IN REF connector.

- 2 Press the MENU button twice.  
The MENU 2 screen appears.

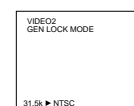


- 3 Press the CENT  $\Delta/\nabla$  button to move the cursor ( $\blacktriangleright$ ) to GEN LOCK, and press the ENTER button.  
The GEN LOCK screen appears.



- 4 Press the CENT  $\Delta/\nabla$  button to move the cursor ( $\blacktriangleright$ ) to ON, and press the ENTER button.  
The gen-lock is activated for the signal output from this unit and the GEN-LOCK indicator on the front panel lights.

When the converter is turned on or the input mode is changed, "GEN LOCK MODE" appears on the screen.



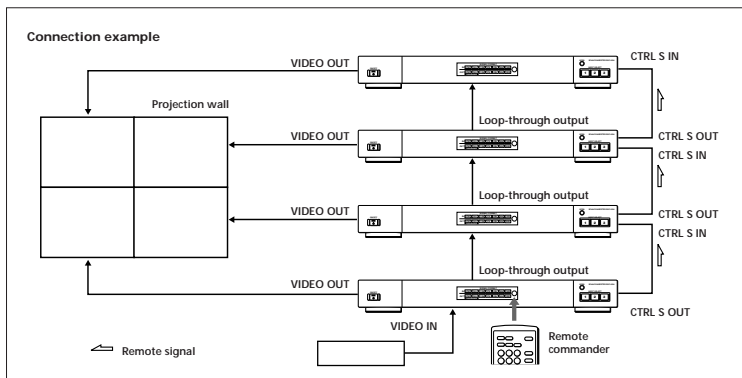
### To deactivate the generator lock

Repeat steps 1 to 3 above, then set GEN LOCK to OFF in step 4. The GEN-LOCK indicator on the front panel turns off.

### Notes

- If you select GEN LOCK on the MENU 2 screen with no reference signal input, "NO REFERENCE" appears on the screen.
- "WRONG REFERENCE" will appear when the reference signal format does not correspond with the input signal format.
- The RGB/component output is recommended for editing. If you use the composite video output, a frame synchronizer may be needed to adjust the phase to the reference signal. For the SC/H (Subcarrier to Horizontal) adjustment, see page 46.

## Constructing a projection wall



When you construct a projection wall which displays a larger picture constructed from multiple projectors, use the converters as in the connection example above. Prepare one converter for each projector.

Adjust the picture of each projector so that the projection wall picture is displayed smoothly, and store the adjustment data on each converter under the same memory number. This enables you to quickly switch between a total of five projection wall pictures.

### Storing the adjustment data of the picture

- Adjust the projectors.**  
Use the test patterns (HATCH, COLOR BAR and GRAY SCALE) contained in the converter. For the test patterns, see page 41.
- Adjust pieces of the picture with the converter.**  
Set the zooming magnification according to the number of pieces of the picture. Then adjust each piece of the picture using the H/V SIZE buttons and CENT buttons so that they connect smoothly as a large picture.

Number of pieces of the picture	Zooming
4	× 2
9	× 3
16	× 4

For zooming and resizing the picture, see page 39.

- Store the adjustment data in the memory of the converter.**  
Store the data under the same memory number on each converter.  
For details, see "Storing the current condition" on page 40.
- Repeat steps 1 to 3 for storing other picture patterns.**  
The adjustment data for up to five picture patterns can be stored under memory numbers 1 to 5.

### Displaying the picture on the projection wall

The names of the remote commander buttons differ depending on the commander model. Refer to the table on page 42.

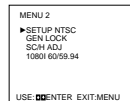
- Press buttons 7, 7 and ENTER on the remote commander in sequence at intervals of one second. "MEMORY LOAD READY" appears on each projector screen.
- Select the memory number under which the adjustment data of the desired picture pattern is stored by pressing the number button.  
All of the pieces of the picture are displayed properly so that they connect smoothly as a large picture.
- To switch to another picture pattern, press the number button corresponding to the memory number.

English

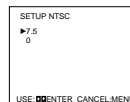
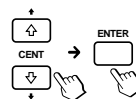
## Selecting the setup level

You can select the black level (setup level) for the output NTSC signal.  
The black level is set to "0" (IRE) at the factory. If the output picture is too dark, change the setting to "7.5" (IRE).

- Press the MENU button twice.  
The MENU 2 screen appears.



- Press the CENT  $\phi/\phi$  button to move the cursor (►) to SETUP NTSC, and press the ENTER button.  
The SETUP NTSC menu appears.



- Press the CENT  $\phi/\phi$  button to select "7.5" or "0," and press the ENTER button.
- To quit the menu, press the MENU button twice.

## Selecting the on-screen language

You can select the on-screen language among five languages.

- Press the MENU button once.  
The MENU 1 screen appears.
- Press the CENT  $\phi/\phi$  button to move the cursor (►) to LANGUAGE and press the ENTER button.  
The LANGUAGE menu appears.



- Press the CENT  $\phi/\phi$  button repeatedly to move the cursor (►) to the desired language, and press the ENTER button.
- To quit the menu, press the MENU button three times.

## Adjusting the SC/H level (Subcarrier to Horizontal)

When you edit or record a composite output signal with a VCR, you need to adjust the subcarrier-to-horizontal phase (SC/H).  
Prepare special measurement equipment for the adjustment.

- Press the MENU button twice.  
The MENU 2 screen appears.
- Press the CENT  $\phi/\phi$  button to move the cursor (►) to SC/H ADJ and press the ENTER button.  
The adjustment value is displayed on the screen.

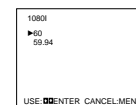


- Press the CENT  $\phi/\phi$  button to adjust the SC/H.
- To quit the menu, press the MENU button twice.

## Using the HDTV output

When 1080i (HDTV) signal is output, adjust the vertical frequency to 60 Hz or 59.94 Hz according to the system of the monitor or video equipment connected to DSC-1024HD.

- Press the MENU button twice.  
The MENU 2 screen appears.
- Press the CENT  $\phi/\phi$  button to move the cursor (►) to 1080i 60/59.94, and press the ENTER button.  
The 1080i setting screen appears.



- Press the CENT  $\phi/\phi$  button to select the vertical frequency of the connected system: 60 (Hz) or 59.94 (Hz), and press the ENTER button.

- To quit the menu, press the MENU button twice.

### Note

When the output format is anything other than 1080i, you cannot switch to the 1080i setting screen. "NOT APPLICABLE" appears on the screen instead.

# Troubleshooting

If you are having problems, check the countermeasures for each symptom listed below.  
If the problem still cannot be solved, contact your nearest service facility.

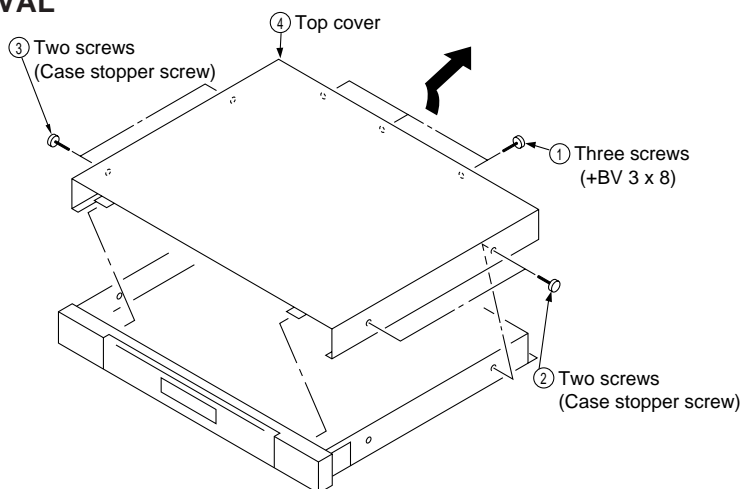
Symptom	Check and countermeasure
No picture	<ul style="list-style-type: none"> <li>Check if the indicator of the ON/OFF switch is lit. If not, make sure the power cord is connected and press the ON/OFF switch.</li> <li>Check if the monitor/projector is turned on.</li> <li>Check if the OUT indicator matching the monitor/projector is lit (see page 49).</li> <li>Check if the monitor/projector is connected securely using the built-in test patterns.</li> <li>Check if the correct INPUT SELECT button has been pressed.</li> <li>Check if the input source equipment is turned on and input source is being played.</li> <li>Check if one of the IN indicators is lit. If not, make sure the input source equipment is connected correctly. If equipment is connected to VIDEO 3 IN, set the SYNC AUTO/ON G selector to AUTO. If equipment is connected to VIDEO 2 IN, check if the NORMAL/COMP selector is set to the correct position.</li> </ul>
The sync signal streaks on the screen (does not stabilize).	<ul style="list-style-type: none"> <li>If the VIDEO OUT D-sub connector is used, check to see if the RGB/YBR selector and SYNC SEP/COMP selector of the VIDEO OUT section are correct.</li> </ul>
Picture is greenish.	<ul style="list-style-type: none"> <li>If the input source equipment is a computer connected to VIDEO 3 IN, set the SYNC AUTO/ON G selector to ON G.</li> <li>Equipment which emits both external sync signals and sync on green signals cannot be connected to VIDEO 2 IN connectors. When connecting Silicon Graphics Inc. computers or some Macintosh models, connect them to VIDEO 3 IN connectors and set the SYNC AUTO/ON G selector to ON G.</li> </ul>
Picture is purplish.	<ul style="list-style-type: none"> <li>If the input source equipment is a computer connected to VIDEO 3 IN, set the RGB/YBR selector to RGB.</li> </ul>
Picture is too large.	<ul style="list-style-type: none"> <li>Adjust the size of the picture using the SIZE buttons.</li> <li>Press the ZOOM - button to set the zooming size to x1.</li> </ul>
Picture is enlarged vertically.	<ul style="list-style-type: none"> <li>When the output format is 1080i, the picture is enlarged if output to a monitor with the conventional Japanese HDTV format (1035i format). In this case, set the 1035/1080 format selector of the monitor to 1080, or adjust the vertical size using the V SIZE +/- button.</li> </ul>
Remote commander does not function.	<ul style="list-style-type: none"> <li>Check the type of your remote commander and set the COMMAND MODE selector correctly (see page 42).</li> <li>This unit functions with remote commanders for Sony TVs and projectors only.</li> <li>Disconnect the plug from the CTRL S IN jack.</li> </ul>
Remote commander malfunctions.	<ul style="list-style-type: none"> <li>Set the COMMAND MODE selector to OFF.</li> </ul>
The POWER indicator flashes.	<ul style="list-style-type: none"> <li>The built-in thermal protector may have functioned. Check if the surrounding temperature is too high.</li> <li>Press the POWER switch to turn the unit off. Then press it again and check the POWER indicator. If the POWER indicator still flashes, consult your dealer.</li> <li>Press the POWER switch to turn the unit off. Then press it again and check the fan. If the fan does not work, consult your dealer.</li> </ul>
"NOT APPLICABLE" is displayed on the screen.	<ul style="list-style-type: none"> <li>You have pressed a button that does not function in the current operating mode.</li> </ul>
"NO REFERENCE" is displayed on the screen, and the GEN-LOCK indicator on the front panel flashes.	<ul style="list-style-type: none"> <li>The black burst signal is not input to the VIDEO 1 IN connector when GEN LOCK is set to ON on the MENU 2 screen.</li> </ul>
"WRONG REFERENCE" is displayed on the screen, and the GEN-LOCK indicator on the front panel flashes.	<ul style="list-style-type: none"> <li>The format of the black burst signal input from the signal generator does not correspond with the output signal format (NTSC or PAL) of the converter.</li> </ul>

English

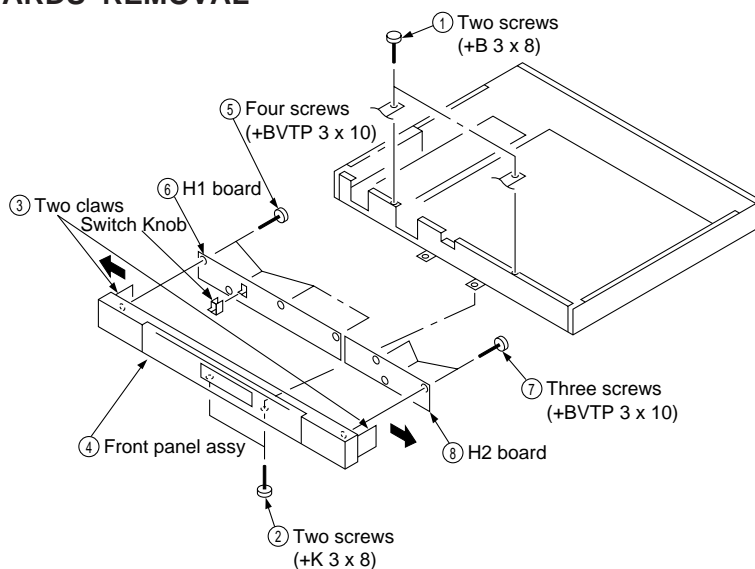
## SECTION 2

### DISASSEMBLY

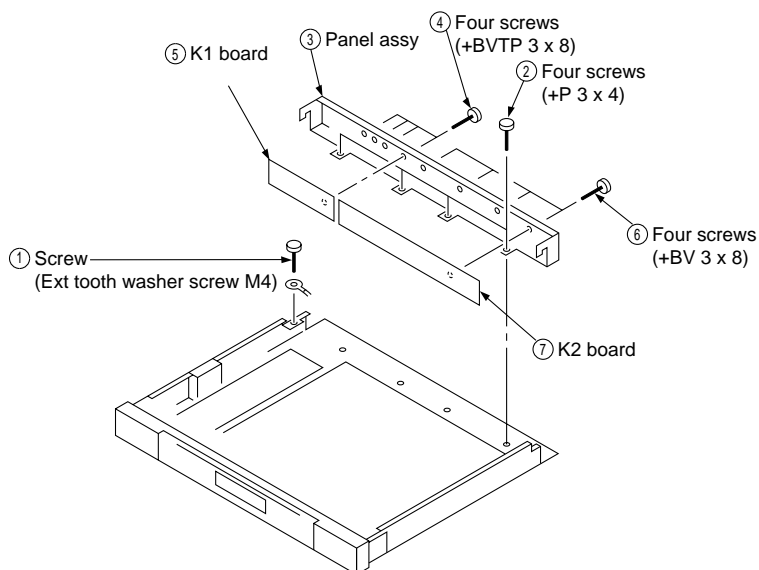
#### 2-1. TOP COVER REMOVAL



#### 2-2. H1 AND H2 BOARDS REMOVAL



#### 2-3. K1 AND K2 BOARDS REMOVAL



## SECTION 3

### SOFTWARE (COLOR ADJUSTMENTING, ETC.)

#### 3-1. Necessary Items

One 3.5-inch floppy disk (Parts No. 3-702-760-01)  
 RS-232C cable (Dsub 9/MiniDIN 8) (Parts No. 1-690-391-21)  
 IBM/PC or compatible (MS-DOS Ver. 5.0 or above)

#### 3-2. Purpose

This service kit can be used for the following adjustments.

- 1) Color-adjusting the DSC-1024HD
- 2) Loading the geometry factory setting data of the DSC-1024HD
- 3) Checking the main CPU operation of the DSC-1024HD
- 4) Passing digital circuits

These adjustments are used in the following.

- 1) This adjustment is necessary when a signal gain is changed due to device replacement, etc. When the color or luminance of output signal is incorrect, perform this adjustment.
- 2) In the DSC-1024HD, the geometry factory setting data which displays an image with correct size and correct position when a preset signal is input is stored in the EEPROM. If this data is lost due to the CPU or EEPROM replacement, load this data.
- 3) This function displays an operational condition of the CPU of the DSC-1024HD. This allows the CPU operation to be detected when the CPU is normal, and parts which need to be repaired can be located.
- 4) This function is useful for discriminating failure between the decoder and encoder analog circuits when the DSC-1024HD does not operate correctly. However, note that format conversion (timing conversion) is not carried out in input/output during operation.

#### 3-3. Setting

Connect a RS-232 cable (Dsub 9) to COM1.  
 Connect the MiniDIN 8 of the RS-232 cable to CN252 of the unit.

##### Installing software

The following files are provided in the 3.5-inch floppy disk.

DSC.EXE adjustment program

Preset data for HD10. PRE microcomputer V1.0

SCH.EXE adjustment program

Copy these three files to the same directory when installing these on a PC hard disk.

Note: Although the color data of this program is saved in a PC file, it can be saved only in the directory with DSC.EXE. The color data or preset data saved in the PC can be read for transfer to the unit. However, a file used for this procedure should be kept in the directory with DSC.EXE. When performing DSC.EXE, this should be carried out from the directory with the DSC.EXE.

#### 3-4. Operation

Access

When MS-DOS prompt appears, type C : >DSC.

Adjusting Software (DSC. EXE) screen

Use ↑ or ↓ key to select an item, and press the ENTER key to determine the data changing mode of items.

Use ← or → key to change data, and press the ENTER key to determine the data.

Data can also be changed by typing numerals directly. (Use the ENTER key to determine the data.)

The following functions are also provided.

ALT + X

Ending DSC.EXE

“YES” : Ends

“NO” : Returns

ALT + F

Saving and loading data to a PC file

“LoadColorData” : Transfers data from a PC file to DSC.

“SaveColorData” : Saves a DSC data to a PC file.

“LoadPresetData” : Transfers preset data to DSC.

“Cancel” : Returns

ALT + S

Saving data to EEPROM

“SaveColor” : Saves a COLOR\_NDX table data to the EEPROM.

“Init EEPROM” : Initializes the EEPROM.

(All adjustment data are eliminated.)

“Cancel” : Returns

ALT + R

Reads the unit data again.

ALT + C

Copies a color data (Note)

“YBR V3→YBR V2”

“RGB V3→RGB V2”

“YBR V3→Y/C (NTSC) V1”

“Y/C (NT) V1→Comp (NT) V1”

“Comp (NT) V1→Comp (NT) V2”

“YBR V3→Y/C (PAL) V1”

“Y/C (PAL) V1→Comp (PAL) V1”

“Comp (PAL) V1→Comp (NT) V2”

“Cancel” : Returns

ALT + T

Setting test mode

“Digital Pass” : Outputs an input signal without passing through the digital section.

A repair can be made by disconnecting a digital section and an analog section, because of a direct connection from ADC to DAC.

(The input/output signal timing becomes same)

“Memory Check” : Displays flame memories A to D separately.

The selected memory data are output by the amount of 4 lines, and the other memory data is not output, and therefore the memory can be identified if destroyed.

“Cancel” : Returns



Note: In the DSC-1024HD, the following 10 color tables are provided with color data.

COLOR\_NDX = 0 : VIDEO 1 NTSC Y/C  
 COLOR\_NDX = 1 : VIDEO 1 NTSC COMPOSITE  
 COLOR\_NDX = 2 : VIDEO 1 PAL Y/C  
 COLOR\_NDX = 3 : VIDEO 1 PAL COMPOSITE  
 COLOR\_NDX = 4 : VIDEO 2 NTSC COMPOSITE  
 COLOR\_NDX = 5 : VIDEO 2 PAL COMPOSITE  
 COLOR\_NDX = 6 : VIDEO 2 YBR  
 COLOR\_NDX = 7 : VIDEO 2 RGB  
 COLOR\_NDX = 8 : VIDEO 3 YBR  
 COLOR\_NDX = 9 : VIDEO 3 RGB

Alt + S command can copy all items in these tables to another table.

Example) YBR V3→YBR V2

The contents of COLOR\_NDX=8 table are copied to COLOR\_NDX=6 table.

### 3-5. Color Adjustment Procedures

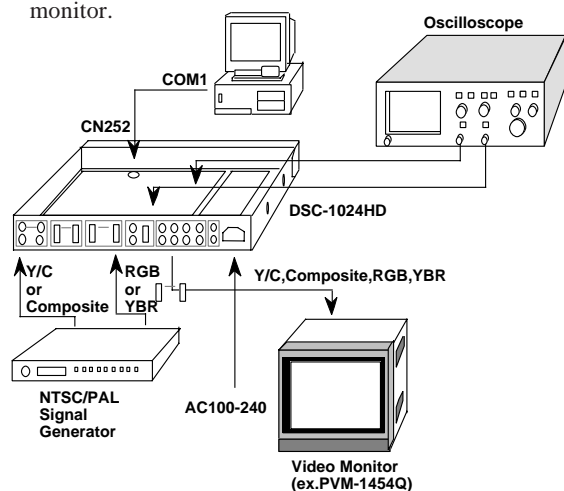
#### 3-5-1. Preparations

Prepare the following devices.

- 1) NTSC signal generator (COMPOSITE, Y/C, YBR, RGB out)
- 2) PAL signal generator (COMPOSITE, Y/C out)
- 3) Video monitor (NTSC, PAL COMPOSITE, Y/C, YBR, RGB in) (ex. PVM1454Q)
- 4) Oscilloscope
- 5) Vector scope

#### 3-5-2. Confirming Operations

- 1) Set OUTPUT FORMAT of the DSC-1024HD to NTSC.
- 2) Press TEST PATTERN button of the DSC-1024HD.
- 3) Set the RGB OUT slide switch of the DSC-1024HD to COMP SYNC side.
- 4) Make sure that the COMPOSITE, Y/C, RGB images appear on the video monitor.
- 5) Press the TEST PATTERN button several times until the LED goes off to cancel the TEST PATTERN.
- 6) Input a signal from the signal generator and make sure that COMPOSITE, Y/C, RGB in images appear on the video monitor.



Connection Diagram

#### 3-5-3. Adjustment of Reference Frequency

- 1) Set the output format to NTSC.
- 2) Press the test pattern button to display color bars.  
Under this condition, execute aging for more than 15 minutes.
- 3) Adjust CV200 so that the frequency at TP1502 is approximately 14318180.
- 4) Set the output format to PAL.
- 5) Press the test pattern button to display color bars.
- 6) Adjust CV201 so that the frequency at TP1502 is approximately 17734475.
- 7) Repeating steps 3) ~6), adjust so that the frequency at TP1502 in the NTSC mode is  $14318180 \pm 10$  Hz.  
Also, adjust so that the frequency at TP1502 in the PAL mode is  $17734475 \pm 10$  Hz.

#### 3-5-4. Adjustment of Subcarrier Frequency

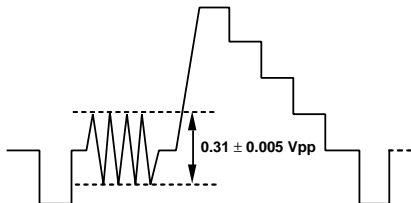
- 1) Enter NTSC composite signal to the INPUT1.  
Enter VGA (graphic) color bar signal to the INPUT3.  
Connector a video monitor to the composite video output.
- 2) Set the INPUT SELECT to "3".
- 3) Set the OUTPUT format to NTSC. Select GENLOCK mode.
- 4) Adjust CT1501 so that the frequency at TP1501 is  $3579545 \pm 5$  Hz.
- 5) Turning on/off the POWER switch, adjust CT1501 finely so that color bars are displayed within 1 second after the screen appeared.  
Repeating this more than three times, make sure there is no abnormality.
- 6) Enter PAL composite signal to the INPUT1.
- 7) Set the OUTPUT format to PAL. Select GENLOCK mode.
- 8) Adjust CT1500 so that the frequency at TP1501 is  $4433618.75 \pm 5$  Hz.
- 9) Turning on/off the POWER switch, adjust CT1500 finely so that color bars are displayed within 1 second after the screen appeared.  
Repeating this more than three times, make sure there is no abnormality.

#### 3-5-5. W/B Adjustment

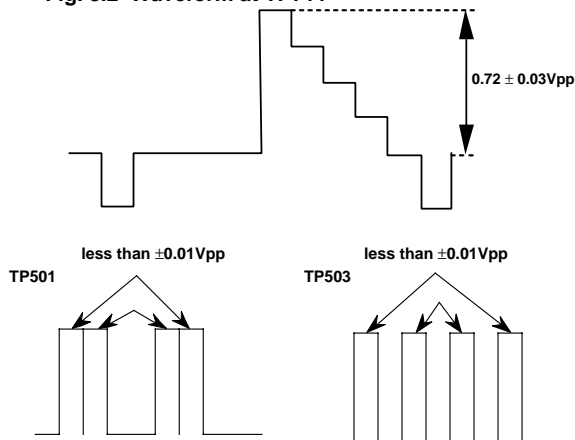
1. Adjustment in Y color-difference input
- 1) Input a NTSC color bar signal (signal including 100 IRE white) to VIDEO 3 in Y color-difference.
- 2) Set OUTPUT to NTSC.
- 3) Set the slide switch on the rear to RGB, SOG, 75Ω term input, and RGB output.
- 4) Press Alt + R from the PC to set the "CONT" to BD.
- 5) Perform aging for more than 3 minutes.
- 6) Adjust RV703 so that TP711 waveform becomes  $0.72V \pm 0.01$  Vpp.
- 7) Set the slide switch on the rear to YBR input.
- 8) Press Alt + R on the PC and make sure that "COLOR\_NDX" is 8.
- 9) Input a NTSC gray scale signal (including 100 IRE white).
- 10) Set "CONT" to D9 using the PC.
- 11) Adjust "EXT Y" from the PC so that TP711 waveform becomes  $0.72V \pm 0.01$  Vpp.
- 12) Adjust "RED DATA" from the PC so that TP712 waveform becomes  $0.72V \pm 0.01$  Vpp.

- 13) Adjust "BLUE DATA" from the PC so that TP710 waveform becomes  $0.72V \pm 0.01 V_{pp}$ .
- 14) Set "EXT R-Y" to FF using the PC.
- 15) Press Alt + S on the PC perform "COLOR SAVE."
- 16) Input a NTSC color bar signal (including 75 IRE white).
- 17) Adjust "COLOR DATA", "HUE DATA" from the PC so that TP501 waveform becomes flat.
- 18) Adjust "EXT B-Y", "HUE DATA" from the PC so that TP503 waveform becomes flat.
- 19) Press Alt + S on the PC perform "COLOR SAVE".  
Set the slide switch on the rear to YBR output.
- 20) Adjust RV705 so that the amplitude of burst signal at TP709 becomes  $0.31 \pm 0.005 V_{pp}$ . (Fig. 3.1)
- 21) Connect a vector scope to the composite output, and adjust RV701, RV704 and RV706 so that a center bright point converges into one point, and R, G, B bright points converge in the specified frame respectively.
- 22) Confirm that the waveform at TP711 is  $0.70 \pm 0.03 V_{pp}$ . (Fig. 3.2)
- 23) Enter NTSC gray scale signal (100 IRE white must be contained).
- 24) Adjust RV1301 to make the waveform at TP712 lower than 10 mVpp.
- 25) Adjust RV1302 to make the waveform at TP710 lower than 10 mVpp.
- 26) Confirm that the waveform at TP708 is below 20 mVpp (not including burst signal).
- 27) If adjustment in steps 22) ~ 26) failed, readjust from 2).
- 28) Press Alt + C on the PC and perform "YBR V3 → YBR V2".
- 29) Press Alt + S on the PC and perform "COLOR SAVE".

**Fig. 3.1 Waveform at TP709**



**Fig. 3.2 Waveform at TP711**



Adjustments in step 16 and 17

2. Adjustments in RGB input
  - 1) Input a NTSC gray scale signal (including 100 IRE white) to VIDEO 3 in RGB.  
Set the slide switch on the rear to RGB, AUTO,  $75\Omega$  term input, and RGB output.
  - 2) Press Alt + R on the PC and make sure that "COLOR\_NDX" is 9.
  - 3) Set "CONT" to BD using the PC.
  - 4) Adjust "RED DATA" from the PC so that TP712 waveform becomes  $0.72V \pm 0.01 V_{pp}$ .
  - 5) Adjust "BLUE DATA" from the PC so that TP710 waveform becomes  $0.72V \pm 0.01 V_{pp}$ .
  - 6) Press Alt + S on the PC perform "COLOR SAVE".
  - 7) Set the slide switch on the rear to YBR output.
  - 8) Make sure that TP712 waveform becomes less than 20 mVpp.
  - 9) Make sure that TP710 waveform becomes less than 20 mVpp.
  - 10) Make sure that TP708 waveform becomes less than 40 mVpp. (excluding BURST)
  - 11) If steps 7 to 10 do not meet the specification, repeat from step 1.
  - 12) Press Alt + C on the PC and perform "RGB V3 → RGB V2".
  - 13) Press Alt + S on the PC and perform "COLOR SAVE".
3. Adjustments in Y/C (NTSC) input
  - 1) Input a NTSC gray scale signal (including 100 IRE white) to VIDEO 1 in Y/C.  
Set the slide switch on the rear to RGB output.
  - 2) Press Alt + R on the PC and make sure that "COLOR\_NDX" is 0.
  - 3) Press Alt + C on the PC and perform "YBR V3→Y/C (NTSC) V1".
  - 4) Adjust "SUB CONT" from the PC so that TP711 waveform becomes  $0.72V \pm 0.01 V_{pp}$ .
  - 5) Adjust "RED DATA" from the PC so that TP712 waveform becomes  $0.72V \pm 0.01 V_{pp}$ .
  - 6) Adjust "BLUE DATA" from the PC so that TP710 waveform becomes  $0.72V \pm 0.01 V_{pp}$ .  
Press Alt + S on the PC perform "COLOR SAVE".
  - 7) Input a NTSC color bar signal (including 75 IRE white) to VIDEO 1 in Y/C.
  - 8) Adjust "SUB COLOR", "HUE DATA" from the PC so that TP503 waveform becomes flat.
  - 9) Press Alt + S on the PC and perform "COLOR SAVE".
  - 10) Set the slide switch on the rear YBR output.  
Input a NTSC gray scale signal (including 100 IRE white) to VIDEO 1 in Y/C.
  - 11) Make sure that TP712 waveform becomes less than 20 mVpp.
  - 12) Make sure that TP710 waveform becomes less than 20 mVpp.
  - 13) Make sure that TP708 waveform becomes less than 40 mVpp. (excluding BURST)
  - 14) If steps 10 to 13 do not meet the specification, repeat from step 1.

4. Adjustments in composite video (NTSC) input
  - 1) Input a NTSC gray scale signal (including 100 IRE white) to VIDEO 1 in COMPOSITE VIDEO.  
Set the slide switch on the rear to RGB output.
  - 2) Press Alt + R on the PC and make sure that "COLOR\_NDX" is 1.
  - 3) Press Alt + C on the PC and perform "Y/C (NT) V1 → Comp (NT) V1".
  - 4) Adjust RV1002 so that TP711 waveform becomes  $0.72V \pm 0.01 V_{pp}$
  - 5) Input a NTSC color bar signal (including 75 IRE white).
  - 6) Adjust "SUB COLOR", "HUE DATA" from the PC so that TP503 waveform becomes flat.
  - 7) Press Alt + S on the PC and perform "COLOR SAVE".
  - 8) Set the slide switch on the rear to YBR output.  
Input a NTSC gray scale signal (including 100 IRE white) to VIDEO 1 in COMPOSITE VIDEO.
  - 9) Make sure that TP712 waveform becomes less than 20 mVpp.
  - 10) Make sure that TP710 waveform becomes less than 20 mVpp.
  - 11) Make sure that TP708 waveform becomes less than 40 mVpp. (excluding BURST).
  - 12) If steps 8 to 11 do not meet the specification, repeat from step 1.
  - 13) Press Alt + C on the PC and perform "Comp (NTSC) V1 → Comp (NTSC) V2".
5. Adjustments in Y/C (PAL) input
  - 1) Input a PAL gray scale signal (including 100 IRE white) to VIDEO 1 in Y/C.  
Set the slide switch on the rear to RGB output.
  - 2) Press Alt + R on the PC and make sure that "COLOR\_NDX" is 2.
  - 3) Press Alt + C on the PC and perform "YBR V3 → Y/C (PAL) V1".
  - 4) Adjust "SUB CONT" from the PC so that TP711 waveform becomes  $0.72V \pm 0.01 V_{pp}$ .
  - 5) Adjust "RED DATA" from the PC so that TP712 waveform becomes  $0.72V \pm 0.01 V_{pp}$ .
  - 6) Adjust "BLUE DATA" from the PC so that TP710 waveform becomes  $0.72V \pm 0.01 V_{pp}$ .  
Press Alt + S on the PC perform "COLOR SAVE".
  - 7) Input a PAL color bar signal (including 75 IRE white) to VIDEO 1 in Y/C.
  - 8) Adjust "SUB COLOR", "HUE DATA" from the PC so that TP503 waveform becomes flat.
  - 9) Press Alt + S on the PC and perform "COLOR SAVE".
  - 10) Set the slide switch on the rear to YBR output.  
Input a PAL gray scale signal (including 100 IRE white) to VIDEO 1 in Y/C.
  - 11) Make sure that TP712 waveform becomes less than 20 mVpp.
  - 12) Make sure that TP710 waveform becomes less than 20 mVpp.
  - 13) Make sure that TP708 waveform becomes less than 40 mVpp (excluding BURST).
  - 14) If steps 10 to 13 do not meet the specification, repeat from step 1.
6. Adjustments in COMPOSITE (PAL) input
  - 1) Input a PAL gray scale signal (including 100 IRE white) to VIDEO 1 in COMPOSITE VIDEO.  
Set the slide switch on the rear to RGB output.
  - 2) Press Alt + R on the PC and make sure that "COLOR\_NDX" is 3.
  - 3) Press Alt + C on the PC and perform "Y/C (PAL) V1 → Comp (PAL) V1".
  - 4) Adjust RV1001 so that TP711 waveform becomes  $0.72V \pm 0.01 V_{pp}$
  - 5) Input a PAL color bar signal (including 75 IRE white).
  - 6) Adjust "SUB COLOR", "HUE DATA" from the PC so that TP503 waveform becomes flat.
  - 7) Press Alt + S on the PC and perform "COLOR SAVE".
  - 8) Set the slide switch on the rear to YBR output.  
Input a PAL gray scale signal (including 100 IRE white) to VIDEO 1 in COMPOSITE VIDEO.
  - 9) Make sure that TP712 waveform becomes less than 20 mVpp.
  - 10) Make sure that TP710 waveform becomes less than 20 mVpp.
  - 11) Make sure that TP708 waveform becomes less than 40 mVpp. (excluding BURST)
  - 12) If steps 8 to 11 do not meet the specification, repeat from step 1.
  - 13) Press Alt + C on the PC and perform "Comp (PAL) V1 → Comp (PAL) V2".
7. SCH Adjustment in NTSC GENLOCK Mode
  - 1) Enter NTSC black burst signal to the composite (BNC) input terminal of INPUT1.  
Enter VGA (graphic) color bar signal to the INPUT3.
  - 2) Set the rear slide switch to RGB input.
  - 3) Select the INPUT SELECT "3" to set the output format to NTSC.
  - 4) Set the SETUP LEVEL to 0, and GENLOCK to ON.
  - 5) Set the vector scope to SCH measurement mode.
  - 6) Using the communication tool, set "SCH", "SCH PRESET" to "0x80" with respect to the burst signal.
  - 7) Save the SCH value
8. SCH Adjustment in PAL GENLOCK Mode
  - 1) Enter PAL black burst signal to the composite (BNC) input terminal of INPUT1.  
Enter VGA (graphic) color bar signal to the INPUT3.
  - 2) Set the rear slide switch to RGB input.
  - 3) Select the input selection "3" to set the output format to PAL.
  - 4) Set the GENLOCK to ON.
  - 5) Set the vector scope to SCH measurement mode.
  - 6) Using the communication tool, set "SCH", "SCH PRESET" to "0x80" with respect to the burst signal.
  - 7) Save the SCH value.

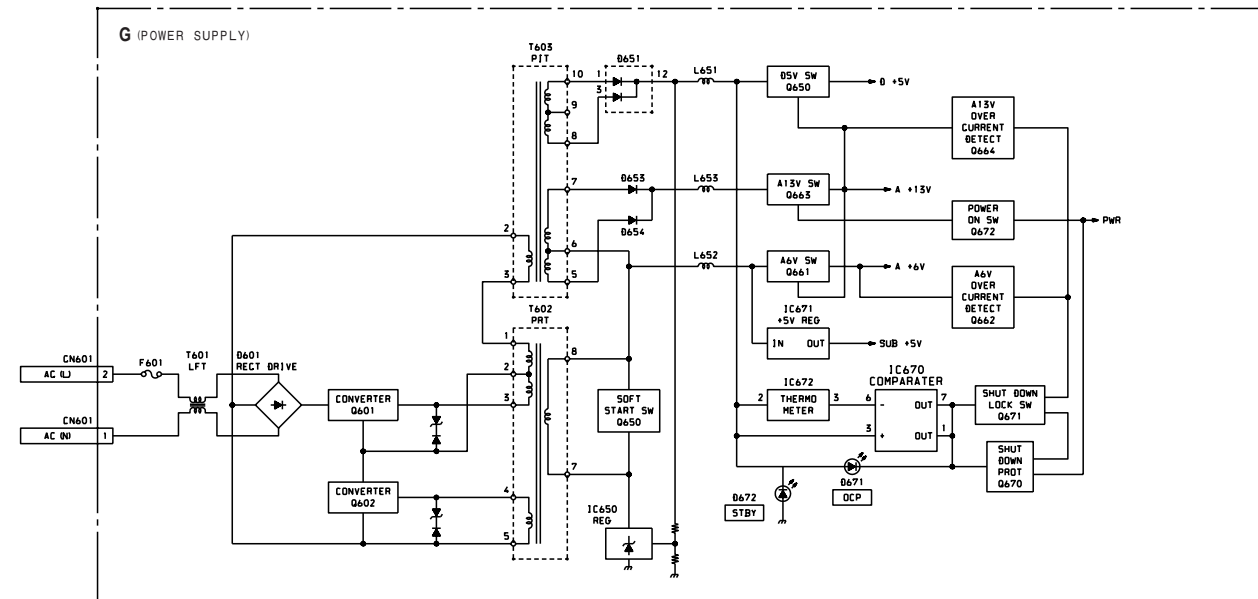
## [Supplement]

Items 7 and 8 can be executed automatically by quitting the DSC.EXE after item 6 finished, then executing the SCH.EXE.

From the MS-DOS prompt, enter C : > SCH to start SCH.EXE, so that the specified register is set to 0x80 in both NTSC and PAL modes.

# MEMO

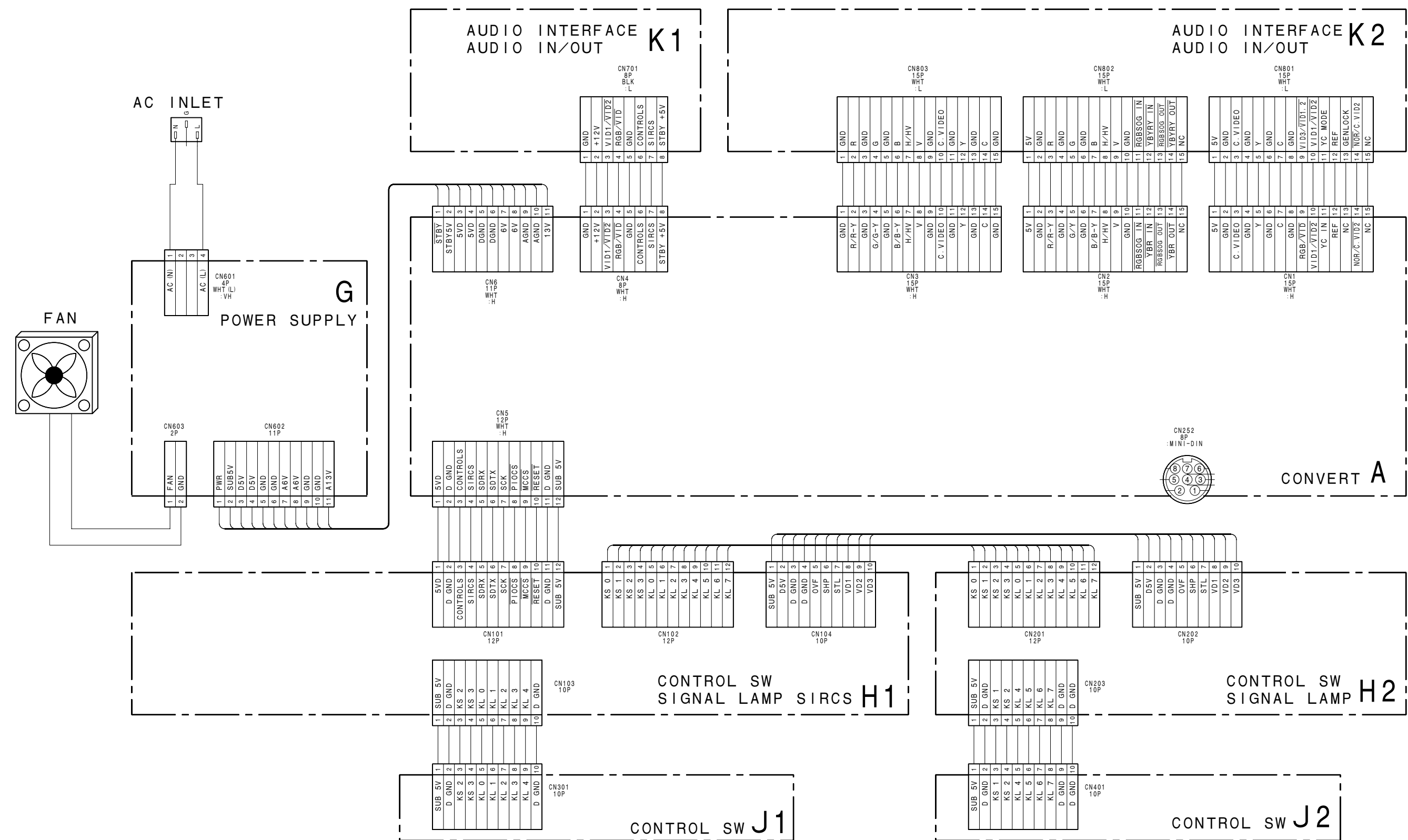
#### 4-1. BLOCK DIAGRAMS





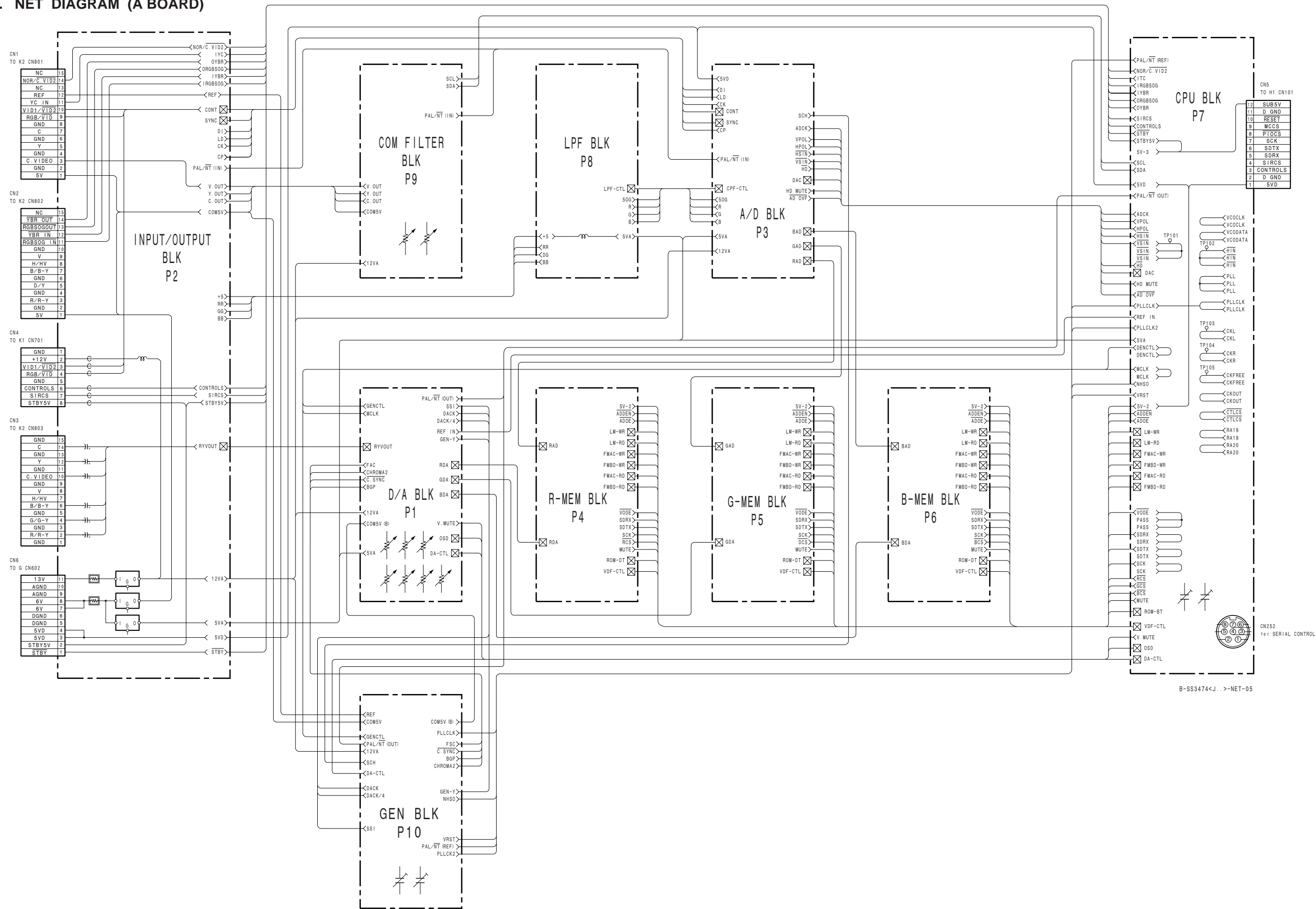


4-2. FRAME SCHEMATIC DIAGRAM



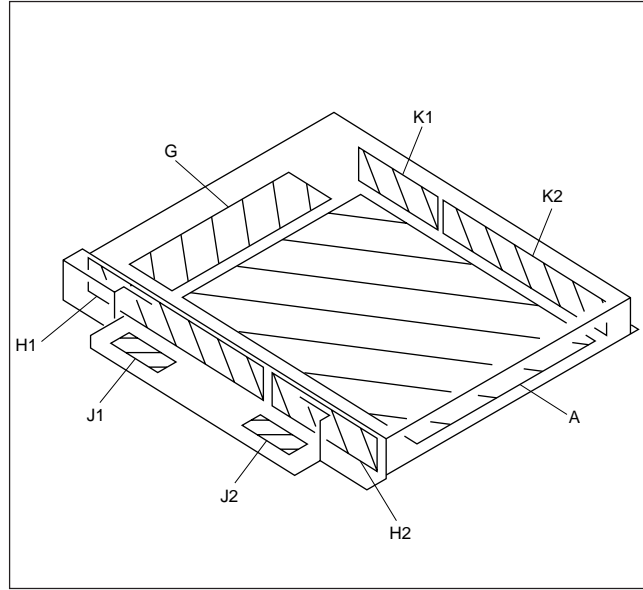
B-SS3474<J...>-KESSENZU-P1

4-3. NET DIAGRAM (A BOARD)





#### 4-4. CIRCUIT BOARDS LOCATION



#### 4-5. SCHEMATIC DIAGRAMS AND PRINTED WIRING BOARDS

##### Note:

- All capacitors are in  $\mu\text{F}$  unless otherwise noted. (pF:  $\mu\text{F}$ )  
Capacitors without voltage indication are all 50 V.
- Indication of resistance, which does not have one for rating electrical power, is as follows.

Pitch: 5 mm  
Rating electrical power 1/4 W (CHIP : 1/10 W)

- All resistors are in ohms.
- : nonflammable resistor.
- : fusible resistor.
- $\Delta$  : internal component.
- : panel designation, and adjustment for repair.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- $\perp$  : earth-ground.
- $\text{---}\text{||}\text{---}$  : earth-chassis.
- Description of connects for A board.

To P1 : To A (1/10)  
To P2 : To A (2/10)  
To P3 : To A (3/10)  
To P4 : To A (4/10)  
To P5 : To A (5/10)  
To P6 : To A (6/10)  
To P7 : To A (7/10)  
To P8 : To A (8/10)  
To P9 : To A (9/10)  
To P9 : To A (9/10)  
To P10 : To A (10/10)

Note: The components identified by shading and mark  $\Delta$  are critical for safety. Replace only with part number specified.

Note: Les composants identifiés par un trame et une marque  $\Delta$  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

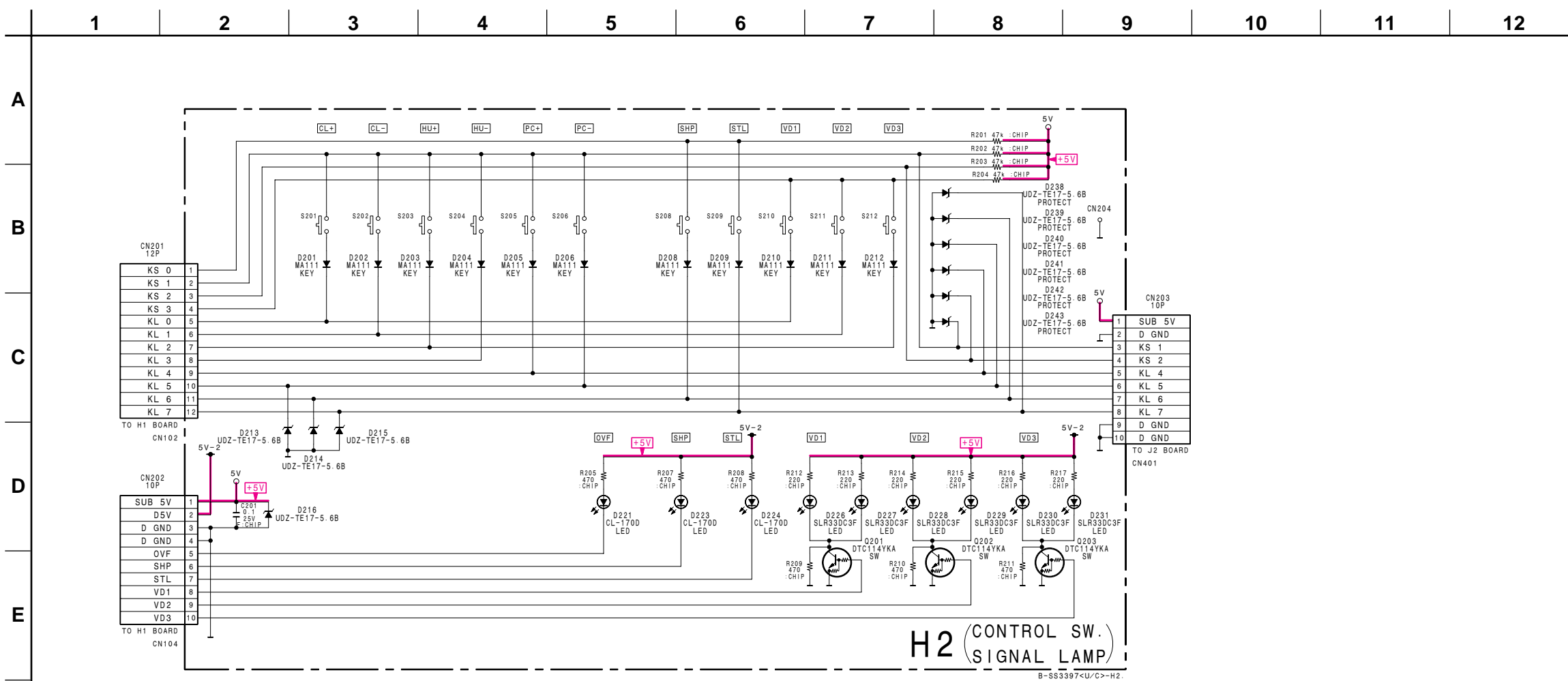
#### Terminal name of semiconductors in silk screen printed circuit (\*):

	Device	Printed symbol	Terminal name	Circuit
①	Transistor		Collector Base Emitter	
②	Transistor		Collector Base Emitter	
③	Diode		Cathode Anode	
④	Diode		Cathode Anode (NC)	
⑤	Diode		Cathode Anode (NC)	
⑥	Diode		Common Anode Cathode	
⑦	Diode		Common Anode Cathode	
⑧	Diode		Common Anode Cathode	
⑨	Diode		Common Anode Cathode	
⑩	Diode		Common Cathode Cathode	
⑪	Diode		Common Cathode Cathode	
⑫	Diode		Anode Anode Cathode	
⑬	Transistor (FET)		Drain Source Gate	
⑭	Transistor (FET)		Drain Source Gate	
⑮	Transistor (FET)		Source Drain Gate	
⑯	Transistor		Emitter Collector Base	
⑰	Transistor		C2(B1)E1 E2(B2)C1	
⑱	Transistor		C1(B2)E2 E1(B1)C2	
⑲	Transistor		C1 B2 E2 E1 B1 C2	
⑳	Transistor		C1 B2 E2 E1 B1 C2	
㉑	Transistor		E2 B1 E1 C2 C1(B2)	
㉒	Transistor		(B2) B1 E2 E2 C1 C1	
㉓	Transistor		(B2) E2 E1 B1 C2 C1	
—	Discrete semiconductot			

(Chip semiconductors that are not actually used are included.)

Ver.1.5

#### (13) H2 Board (CONTROL SW, SIGNAL LAMP)



#### H2 BOARD

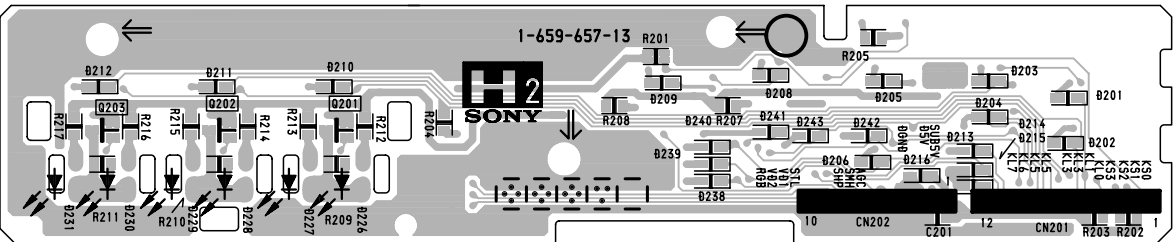
Terminal name of semiconductors in silk screen printed circuit (\*)

Ref.	*
Q201–Q203	①
D201–D206, D221 D223, D224, D238–D243	③

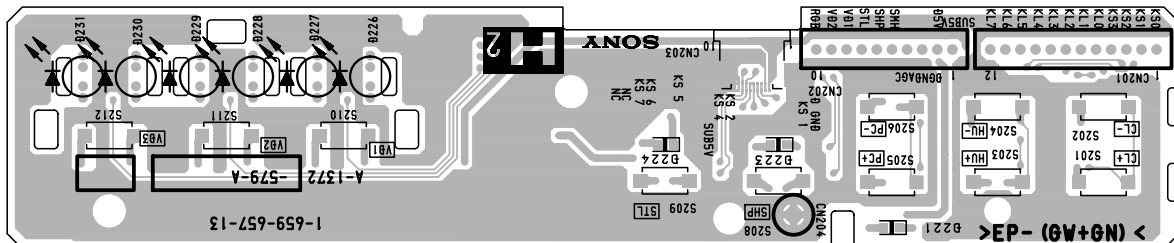
※: Refer to Terminal name of semiconductors in silk screen printed circuit (see page 4-11)



— H2 BOARD (Conductor side) —



— H2 BOARD (Component side) —



#### J1 BOARD SEMICONDUCTOR LOCATION

Ref.	*
D301–D306	③

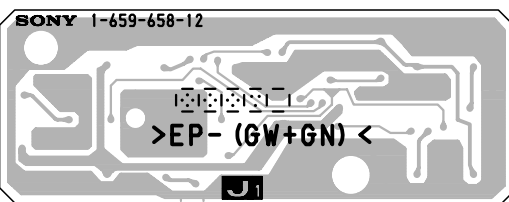
※: Refer to Terminal name of semiconductors in silk screen printed circuit (see page 4-11)

#### J2 BOARD SEMICONDUCTOR LOCATION

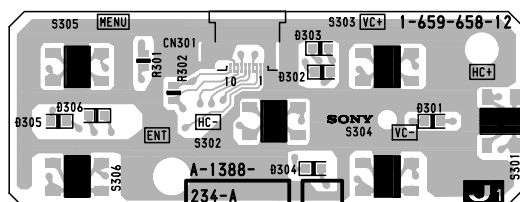
Ref.	*
D401–D406	③

※: Refer to Terminal name of semiconductors in silk screen printed circuit (see page 4-11)

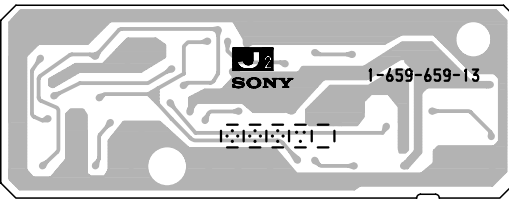
— J1 BOARD (Conductor side) —



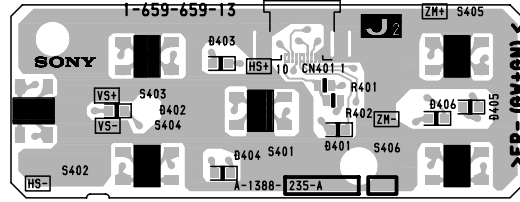
— J1 BOARD (Component side) —



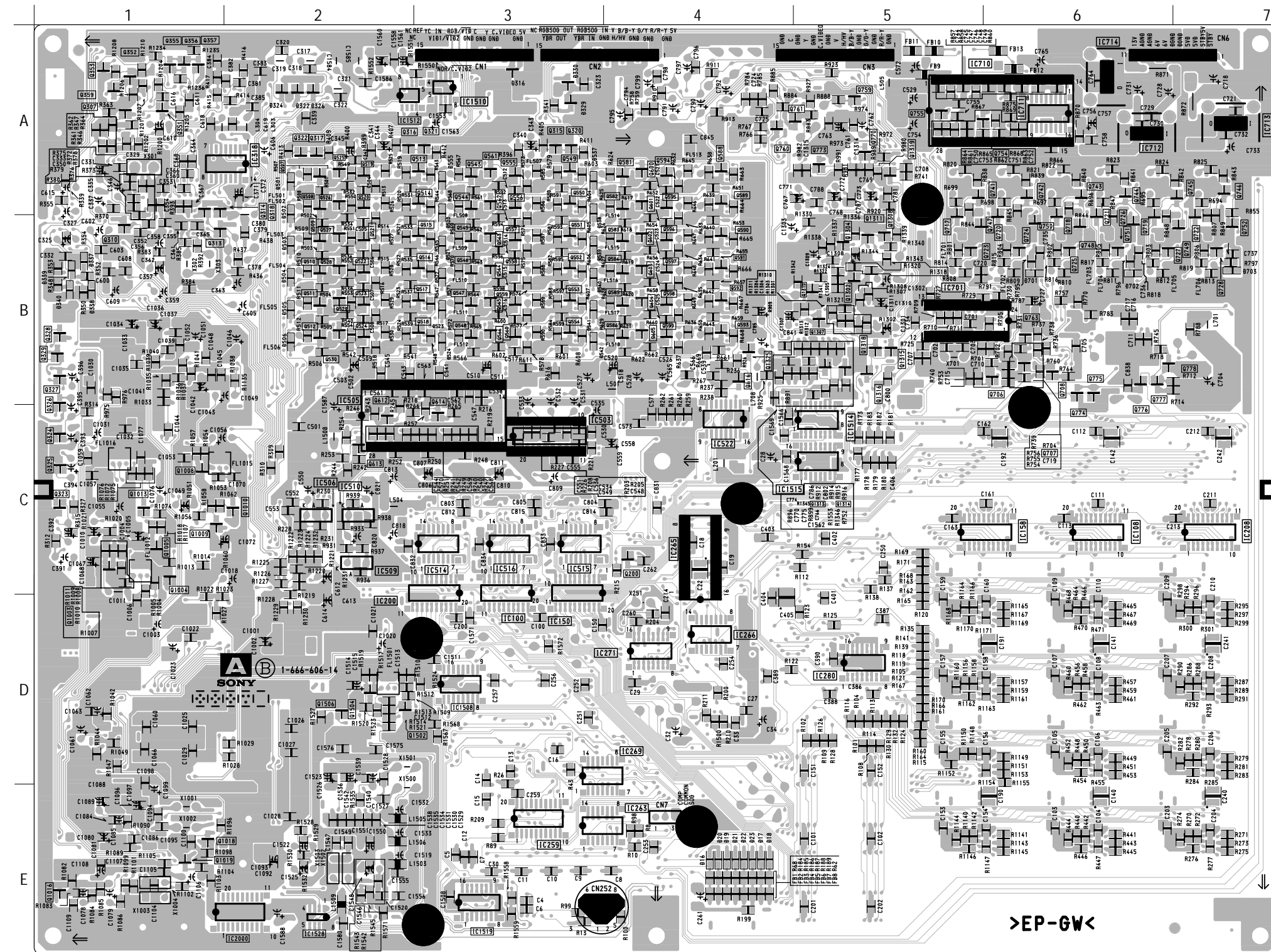
— J2 BOARD (Conductor side) —



— J2 BOARD (Component side) —







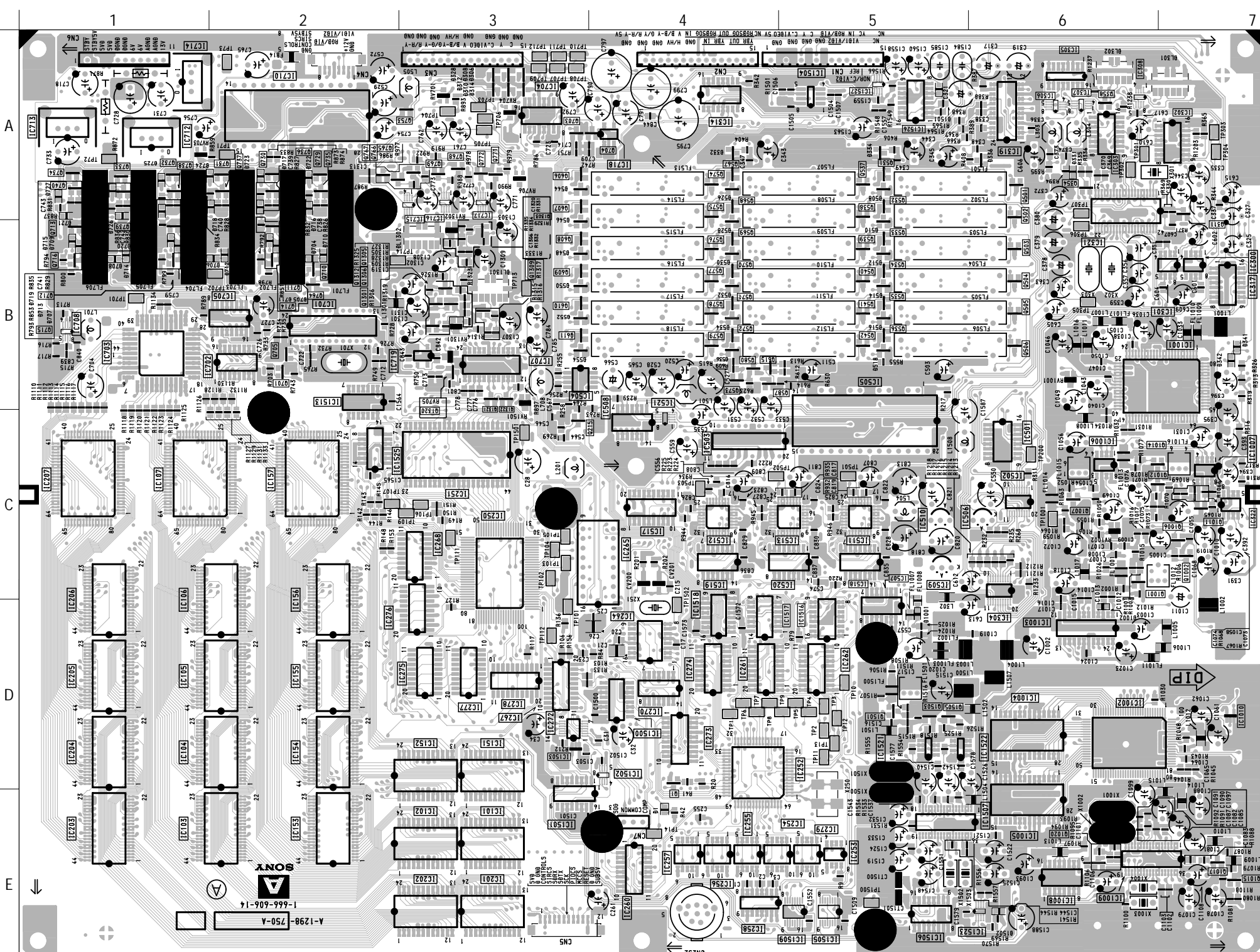
>EP-GW<

### Schematic diagrams

← **H<sub>2</sub>** **J<sub>1</sub>** **J<sub>2</sub>** boards

IC		IC715	A-3	Q535	B-5	Q735	A-2	D330	A-3
(Conductor Side)	(Component Side)	IC716	B-3	Q536	A-3	Q736	A-2	D331	A-2
IC100	D-3	IC717	A-3	Q537	A-5	Q737	A-2	D332	A-6
IC101	E-3	IC718	A-4	Q538	A-5	Q738	A-1	D333	A-4
IC102	D-3	IC719	B-3	Q539	B-3	Q739	A-1	D334	A-5
IC103	E-2	IC720	D-6	Q540	B-5	Q740	A-1	D341	B-7
IC104	D-2	IC1001	B-7	Q541	B-5	Q741	A-5	D342	B-7
IC105	E-2	IC1002	D-6	Q542	B-5	Q742	A-6	D501	A-2
IC106	C-1	IC1003	D-3	Q543	B-5	Q743	A-6	D502	A-2
IC107	E-6	IC1004	D-6	Q544	A-3	Q744	A-6	D503	B-2
IC108	C-6	IC1005	E-6	Q545	B-3	Q745	A-7	D504	B-2
IC150	D-3	IC1006	D-2	Q546	B-3	Q746	A-7	D505	B-2
IC151	D-3	IC1007	C-7	Q547	B-3	Q747	B-5	D506	B-2
IC152	D-3	IC1008	E-6	Q548	B-3	Q748	B-6	D507	A-3
IC153	D-3	IC1009	D-7	Q549	A-3	Q749	B-7	D510	B-5
IC154	D-2	IC1500	D-3	Q550	A-3	Q750	B-6	D508	B-5
IC155	D-2	IC1501	D-3	Q551	B-3	Q751	B-6	D511	B-5
IC156	D-2	IC1502	D-3	Q552	B-3	Q752	B-7	D516	B-6
IC157	C-2	IC1503	D-3	Q553	B-3	Q753	A-3	D518	B-5
IC158	C-6	IC1504	A-5	Q554	B-3	Q754	A-5	D520	A-3
IC200	D-3	IC1505	A-3	Q555	A-3	Q755	A-5	D521	B-3
IC201	E-3	IC1506	E-5	Q556	A-3	Q756	A-5	D522	B-3
IC202	E-3	IC1507	E-5	Q557	B-3	Q757	A-4	D523	B-3
IC203	D-1	IC1508	D-3	Q558	B-3	Q758	B-6	D524	B-3
IC204	D-1	IC1509	E-5	Q559	B-3	Q759	B-6	D526	A-4
IC205	D-1	IC1510	A-3	Q560	B-3	Q760	A-2	D528	B-4
IC206	D-1	IC1511	A-3	Q561	A-3	Q761	A-3	D530	B-4
IC207	C-1	IC1512	A-2	Q562	A-3	Q762	B-2	D532	B-1
IC208	C-7	IC1513	C-5	Q563	B-3	Q763	A-2	D534	B-4
IC209	D-1	IC1514	C-5	Q564	B-3	Q764	A-2	D536	B-4
IC210	D-1	IC1515	C-5	Q565	D-4	Q765	A-3	D537	A-3
IC211	D-1	IC1516	C-5	Q566	B-3	Q766	A-5	D538	A-3
IC212	D-1	IC1517	D-4	Q567	B-3	Q767	A-5	D539	B-3
IC213	D-1	IC1518	E-3	Q568	A-4	Q768	A-5	D540	B-3
IC214	D-1	IC1519	E-3	Q569	A-4	Q769	A-5	D541	B-3
IC215	D-1	IC1520	E-3	Q570	B-4	Q770	A-5	D542	B-3
IC216	D-1	IC1521	E-3	Q571	B-4	Q771	A-5	D543	A-3
IC217	D-1	IC1522	E-3	Q572 <th>B-4</th> <th>Q772</th> <th>A-5</th> <th>D544</th> <th>B-3</th>	B-4	Q772	A-5	D544	B-3
IC218	D-1	IC1523	E-3	Q573 <th>B-4</th> <th>Q773</th> <th>B-6</th> <th>D546</th> <th>B-3</th>	B-4	Q773	B-6	D546	B-3
IC219	D-1	IC1524	E-3	Q574 <th>A-4</th> <th>Q774</th> <th>B-6</th> <th>D547</th> <th>B-3</th>	A-4	Q774	B-6	D547	B-3
IC220	D-1	IC1525	E-2	Q575 <th>A-4</th> <th>Q775</th> <th>B-6</th> <th>D548</th> <th>B-3</th>	A-4	Q775	B-6	D548	B-3
IC221	D-1	IC1526	E-2	Q576 <th>A-4</th> <th>Q776</th> <th>B-6</th> <th>D549</th> <th>B-3</th>	A-4	Q776	B-6	D549	B-3
IC222	D-1	IC1527	E-2	Q577 <th>A-4</th> <th>Q777</th> <th>B-6</th> <th>D550</th> <th>B-3</th>	A-4	Q777	B-6	D550	B-3
IC223	D-1	IC1528	E-2	Q578 <th>A-4</th> <th>Q778</th> <th>B-6</th> <th>D552</th> <th>B-3</th>	A-4	Q778	B-6	D552	B-3
IC224	D-1	IC1529	E-2	Q579 <th>A-4</th> <th>Q779</th> <th>B-6</th> <th>D554</th> <th>A-3</th>	A-4	Q779	B-6	D554	A-3
IC225	D-1	IC1530	E-2	Q580	A-4	Q780	B-6	D555	B-6
IC226	D-1	IC1531	E-2	Q581 <th>A-4</th> <th>Q781</th> <th>B-6</th> <th>D556</th> <th>B-6</th>	A-4	Q781	B-6	D556	B-6
IC227	D-1	IC1532	E-2	Q582 <th>A-4</th> <th>Q782</th> <th>B-6</th> <th>D557</th> <th>B-6</th>	A-4	Q782	B-6	D557	B-6
IC228	D-1	IC1533	E-2	Q583 <th>A-4</th> <th>Q783</th> <th>B-6</th> <th>D558</th> <th>B-6</th>	A-4	Q783	B-6	D558	B-6
IC229	D-1	IC1534	E-2	Q584 <th>A-4</th> <th>Q784</th> <th>B-6</th> <th>D559</th> <th>B-6</th>	A-4	Q784	B-6	D559	B-6
IC230	D-1	IC1535	E-2	Q585 <th>A-4</th> <th>Q785</th> <th>B-6</th> <th>D560</th> <th>B-6</th>	A-4	Q785	B-6	D560	B-6
IC231	D-1	IC1536	E-2	Q586 <th>A-4</th> <th>Q786</th> <th>B-6</th> <th>D561</th> <th>B-6</th>	A-4	Q786	B-6	D561	B-6
IC232	D-1	IC1537	E-2	Q587 <th>A-4</th> <th>Q787</th> <th>B-6</th> <th>D562</th> <th>B-6</th>	A-4	Q787	B-6	D562	B-6
IC233	D-1	IC1538	E-2	Q588 <th>A-4</th> <th>Q788</th> <th>B-6</th> <th>D563</th> <th>B-6</th>	A-4	Q788	B-6	D563	B-6
IC234	D-1	IC1539	E-2	Q589 <th>A-4</th> <th>Q789</th> <th>B-6</th> <th>D564</th> <th>B-6</th>	A-4	Q789	B-6	D564	B-6
IC235	D-1	IC1540	E-2	Q590 <th>A-4</th> <th>Q790</th> <th>B-6</th> <th>D565</th> <th>B-6</th>	A-4	Q790	B-6	D565	B-6
IC236	D-1	IC1541	E-2	Q591 <th>A-4</th> <th>Q791</th> <th>B-6</th> <th>D566</th> <th>B-6</th>	A-4	Q791	B-6	D566	B-6
IC237	D-1	IC1542	E-2	Q592 <th>A-4</th> <th>Q792</th> <th>B-6</th> <th>D567</th> <th>B-6</th>	A-4	Q792	B-6	D567	B-6
IC238	D-1	IC1543	E-2	Q593 <th>A-4</th> <th>Q793</th> <th>B-6</th> <th>D568</th> <th>B-6</th>	A-4	Q793	B-6	D568	B-6
IC239	D-1	IC1544	E-2	Q594 <th>A-4</th> <th>Q794</th> <th>B-6</th> <th>D569</th> <th>B-6</th>	A-4	Q794	B-6	D569	B-6
IC240	D-1	IC1545	E-2	Q595 <th>A-4</th> <th>Q795</th> <th>B-6</th> <th>D570</th> <th>B-6</th>	A-4	Q795	B-6	D570	B-6
IC241	D-1	IC1546	E-2	Q596	A-4	Q796	B-6	D571	B-6
IC242	D-1	IC1547	E-2	Q597 <th>A-4</th> <th>Q797</th> <th>B-6</th> <th>D572</th> <th>B-6</th>	A-4	Q797	B-6	D572	B-6
IC243	D-1	IC1548	E-2	Q598	A-4	Q798	B-6	D573	B-6
IC244	D-1	IC1549	E-2	Q599	A-4	Q799	B-6	D574	B-6
IC245	D-1	IC1550	E-2	Q600	A-4	Q800	B-6	D575	B-6
IC246	D-1	IC1551	E-2	Q601	A-4	Q801	B-6	D576	B-6
IC247	D-1	IC1552	E-2	Q602	A-4	Q802	B-6	D577	B-6
IC248	D-1	IC1553	E-2	Q603	A-4	Q803	B-6	D578	B-6
IC249	D-1	IC1554	E-2	Q604	A-4	Q804	B-6	D579	B-6
IC250	D-1	IC1555	E-2	Q605	A-4	Q805	B-6	D580	B-6
IC251	D-1	IC1556	E-2	Q606	A-4	Q806	B-6	D581	B-6
IC252	D-1	IC1557	E-2	Q607	A-4	Q807	B-6	D582	B-6
IC253	D-1	IC1558	E-2	Q608	A-4	Q808	B-6	D583	B-6
IC254	D-1	IC1559	E-2	Q609	A-4	Q809	B-6	D584	B-6
IC255	D-1	IC1560	E-2	Q610	A-4	Q810	B-6	D585	B-6
IC256	D-1	IC1561	E-2	Q611	A-4	Q811	B-6	D586	B-6
IC257	D-1	IC1562	E-2	Q612	A-4	Q812	B-6	D587	B-6
IC258	D-1	IC1563	E-2	Q613	A-4	Q813	B-6	D588	B-6
IC259	D-1	IC1564	E-2	Q614	A-4	Q814	B-6	D589	B-6
IC260	D-1	IC1565	E-2	Q615	A-4	Q815	B-6	D590	B-6
IC261	D-1	IC1566	E-2	Q616	A-4	Q816	B-6	D591	B-6
IC262	D-1	IC1567	E-2	Q617	A-4	Q817	B-6	D592	B-6
IC263	D-1	IC1568	E-2	Q618	A-4	Q818	B-6	D593	B-6
IC264	D-1	IC1569	E-2	Q619	A-4	Q819	B-6	D594	B-6
IC265	D-1	IC1570	E-2	Q620	A-4	Q820	B-6	D595	B-6
IC266	D-1	IC1571	E-2	Q621	A-4	Q821	B-6	D596	B-6
IC267	D-1	IC1572	E-2	Q622	A-4	Q822	B-6	D597	B-6
IC268	D-1	IC1573	E-2	Q623	A-4	Q823	B-6	D598	B-6
IC269	D-1	IC1574	E-2	Q624	A-4	Q824	B-6	D599	B-6
IC270	D-1	IC1575	E-2	Q625	A-4	Q825	B-6	D600	B-6
IC271	D-1	IC1576	E-2	Q626	A-4	Q826	B-6	D601	B-6
IC272	D-1	IC1577	E-2	Q627	A-4	Q827	B-6	D602	B-6
IC273	D-1	IC1578	E-2	Q628	A-4	Q828	B-6	D603	B-6
IC274	D-1	IC1579	E-2	Q629	A-4	Q829	B-6	D604	B-6
IC275	D-1	IC1580	E-2	Q630	A-4	Q830	B-6	D605	B-6
IC276	D-1	IC1581	E-2	Q631	A-4	Q831	B-6	D606	B-6
IC277	D-1	IC1582	E-2	Q632	A-4	Q832	B-6	D607	B-6
IC278	D-1	IC1583	E-2	Q633	A-4	Q833	B-6	D608	B-6
IC279	D-1	IC1584	E-2	Q634	A-4	Q834	B-6	D609	B-6
IC280	D-1	IC1585	E-2	Q635	A-4	Q835	B-6	D610	B-6
IC281	D-1	IC1586	E-2	Q636	A-4	Q836	B-6	D611	B-6
IC282	D-1	IC1587	E-2	Q637	A-4	Q837	B-6	D612	B-6
IC283	D-1	IC1588	E-2	Q638	A-4	Q838	B-6	D613	B-6
IC284	D-1	IC1589	E-2	Q639	A-4	Q839	B-6	D614	B-6
IC285	D-1	IC1590	E-2	Q640	A-4	Q840	B-6	D615	B-6
IC286	D-1	IC1591	E-2	Q641	A-4	Q841	B-6	D616	B-6
IC287	D-1	IC1592	E-2	Q642	A-4	Q842	B-6	D617	B-6
IC288	D-1	IC1593	E-2	Q643	A-4	Q843	B-6	D618	B-6
IC289	D-1	IC1594	E-2	Q644	A-4	Q844	B-6	D619	B-6
IC290	D-1	IC1595	E-2	Q645	A-4	Q845	B-6	D620	B-6
IC291	D-1	IC1596	E-2	Q646	A-4	Q846	B-6	D621	B-6
IC292	D-1	IC1597	E-2	Q647	A-4	Q847	B-6	D622	B-6
IC293	D-1	IC1598	E-2	Q648	A-4	Q848	B-6	D623	B-6
IC294	D-1	IC1599	E-2	Q649	A-4	Q849	B-6	D624	B-6
IC295	D-1	IC1600	E-2	Q650	A-4	Q850	B-6	D625	B-6
IC296	D-1	IC1601	E-2	Q651	A-4	Q851	B-6	D626	B-6
IC297	D-1	IC1602	E-2	Q652	A-4	Q852	B-6	D627	B-6
IC298	D-1	IC1603	E-2	Q653	A-4	Q853	B-6	D628	B-6
IC299	D-1	IC1604	E-2	Q654	A-4	Q854	B-6	D629	B-6
IC300	D-1	IC1605	E-2	Q655	A-4	Q855	B-6	D630	B-6
IC301	D-1	IC1606	E-2	Q656	A-4	Q856	B-6	D631	B-6
IC302	D-1	IC1607	E-2	Q657	A-4	Q857	B-6	D632	B-6
IC303	D-1	IC1608	E-2	Q658	A-4	Q858	B-6	D633	B-6
IC304	D-1	IC1609	E-2	Q659	A-4	Q859	B-6	D634	B-6
IC305	D-1	IC1610	E-2	Q660	A-4	Q860	B-6	D635	B-6
IC306	D-1	IC1611	E-2	Q661	A-4	Q861	B-6	D636	B-6
IC307	D-1	IC1612	E-2	Q662	A-4	Q862	B-6	D637	B-6
IC308	D-1	IC1613	E-2	Q663	A-4	Q863	B-6	D638	B-6
IC309	D-1	IC1614	E-2	Q664	A-4	Q864	B-6	D639	B-6
IC310	D-1	IC1615	E-2	Q665	A-4	Q865	B-6	D640	B-6
IC311	D-1	IC1616	E-2	Q666	A-4	Q866	B-6	D641	B-6
IC312	D-1	IC1617	E-2	Q667	A-4	Q867	B-6	D642	B-6
IC313	D-1	IC1618	E-2	Q668	A-4	Q868	B-6	D643	B-6
IC314	D-1	IC1619	E-2	Q669	A-4	Q869	B-6	D644	B-6
IC315	D-1	IC1620	E-2	Q670	A-4	Q870	B-6	D645	B-6
IC316	D-1	IC1621	E-2	Q671	A-4	Q871	B-6	D646	B-6
IC317	D-1	IC1622	E-2	Q672	A-4	Q872	B-6	D647	B-6
IC318	D-1	IC1623	E-2	Q673	A-4	Q873	B-6	D648	B-6
IC319	D-1	IC1624	E-2	Q674	A-4	Q874	B-6	D649	B-6
IC320	D-1	IC1625	E-2	Q675	A-4	Q875	B-6	D650	B-6
IC321	D-1	IC1626	E-2	Q676	A-4	Q876	B-6	D651	B-6
IC322	D-1	IC1627	E-2	Q677	A-4	Q877	B-6	D652	B-6
IC323	D-1	IC1628	E-2	Q678	A-4	Q878	B-6	D653	B-6
IC324	D-1	IC1629	E-2	Q679	A-4	Q879	B-6	D654	B-6
IC325	D-1	IC1630	E-2	Q680	A-4	Q880	B-6	D655	B-6
IC326	D-1	IC1631	E-2	Q681	A-4	Q881	B-6	D656	B-6
IC327	D-1	IC1632	E-2	Q682	A-4				

\*: Refer to Terminal name of semiconductors in silk screen printed circuit (see page 4-11)



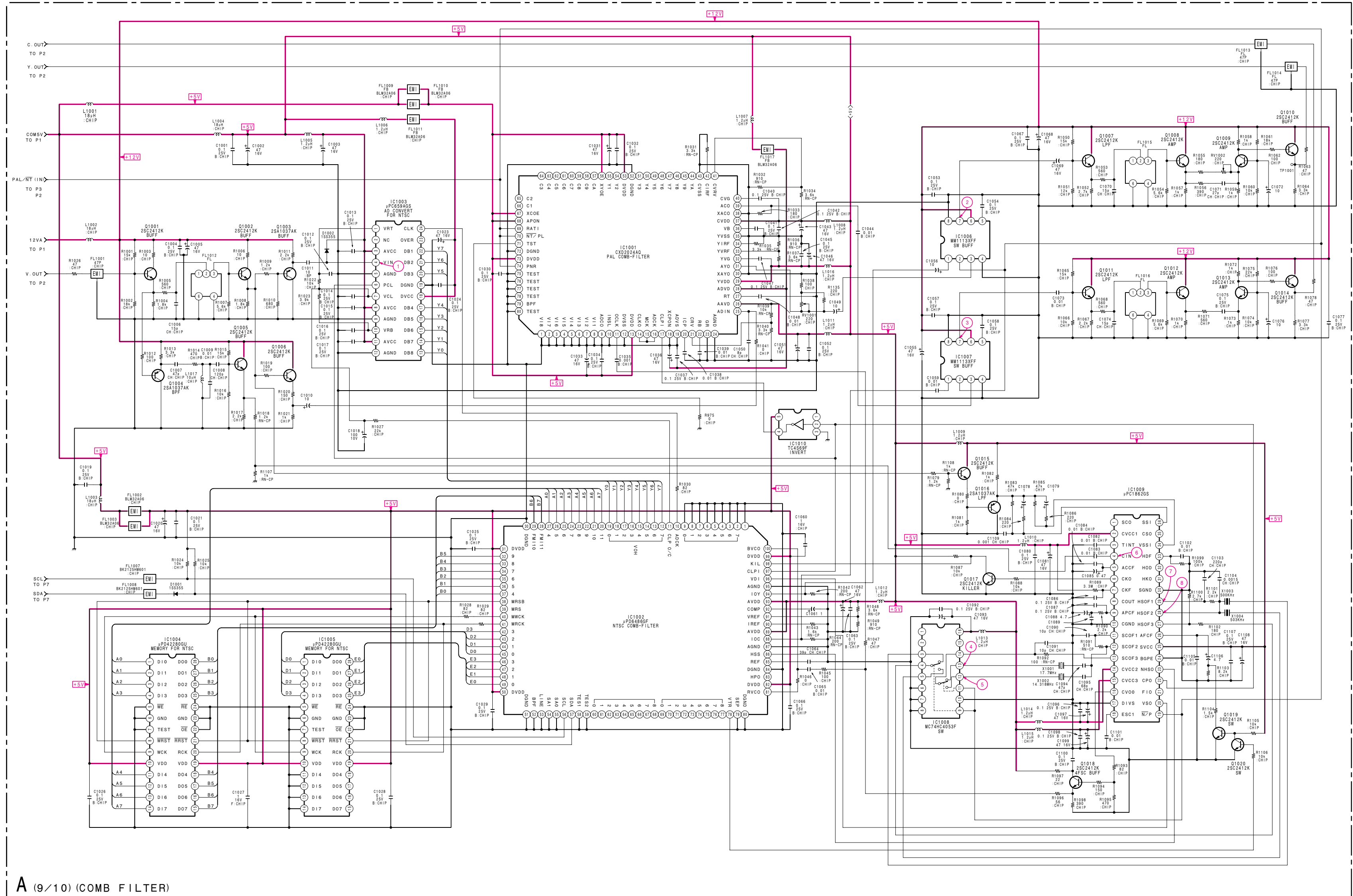
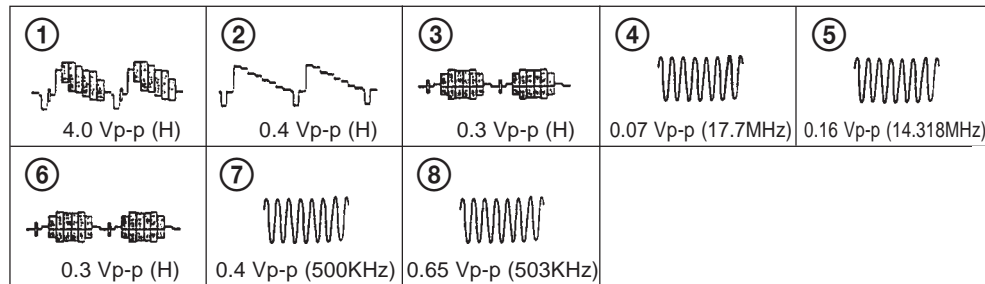
4-17



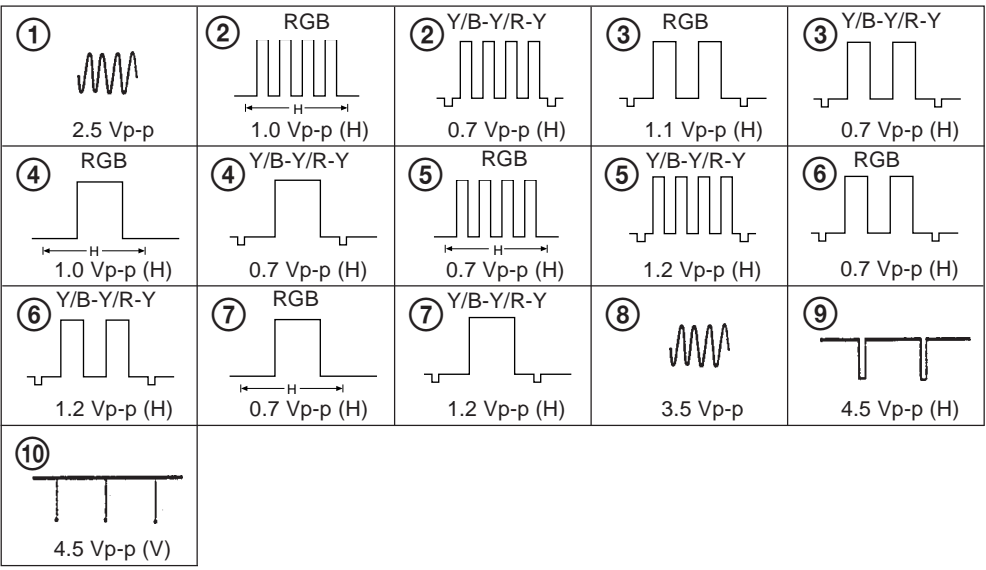
• A(9/10) BOARD VOLTAGE LIST

Ref.	Pin No.	Voltage [V]	Ref.	Pin No.	Voltage [V]	Ref.	Pin No.	Voltage [V]	Ref.	Pin No.	Voltage [V]
IC1003	1	3.2	IC1009	6	0	Q1010	E	3.6	Q1011	B	8.6
	3	4.9		7	0		32	4.4		33	0
	4	2.5		8	0		34	2.4		35	2.4
	6	0.3		9	0		36	2.4		37	0
	7	2.6		10	0		1	0		2	0.3
	8	4.9		11	0		4	4.7		5	4.9
	10	2.3		12	3.0		5	4.9		6	6.4
	11	4.9		13	0.1		7	2.5		8	4.9
	12	0		14	3.0		9	2.6		10	0
	13	0.3		16	4.9		11	2.9		12	3.0
IC1006	1	6.7		1	2.9	Q1002	B	5.2	Q1013	B	3.7
	2	0		2	4.9		C	11.9		C	9.0
	3	6.7		3	2.5		E	5.8		E	3.1
	4	0		4	3.1		5	0		6	6.4
	5	6.7		5	0		7	2.3		8	4.9
	6	12.0		6	2.8		8	4.9		9	2.6
	7	6.0		7	0		9	2.6		10	0
	8	0		8	0		10	0		11	2.9
	10	0		11	2.9		11	2.9		12	3.0
	11	0		12	3.0		12	3.0		13	0
IC1007	1	6.7		13	0	Q1004	B	5.8	Q1014	B	9.0
	2	0		14	4.9		C	0		C	8.3
	3	6.7		15	4.9		E	6.4		E	2.1
	4	0		16	12.0		5	0		6	0
	5	6.7		17	0		6	2.8		7	0
	6	12.0		18	3.5		7	0		8	4.9
	7	6.0		19	0		8	4.9		9	2.6
	8	0		20	4.2		9	2.6		10	0
	10	0		21	4.2		10	0		11	2.9
	11	0		22	0.2		11	2.9		12	3.0
IC1008	1	6.7		23	0.2	Q1006	B	4.6	Q1016	B	1.5
	2	0		24	0		C	12.0		C	0
	3	6.7		25	4.9		E	4.0		E	2.1
	4	0		26	3.2		5	0		6	0
	5	6.7		27	2.7		6	2.8		7	0
	6	12.0		28	3.8		7	0		8	4.9
	7	6.0		29	3.8		8	4.9		9	2.6
	8	0		30	0		9	2.6		10	0
	10	0		31	0		10	0		11	2.9
	11	0		32	4.4		11	2.9		12	3.0

• A(9/10) BOARD WAVEFORMS



• A(1/10) BOARD WAVEFORMS



• A(1/10) BOARD VOLTAGE LIST

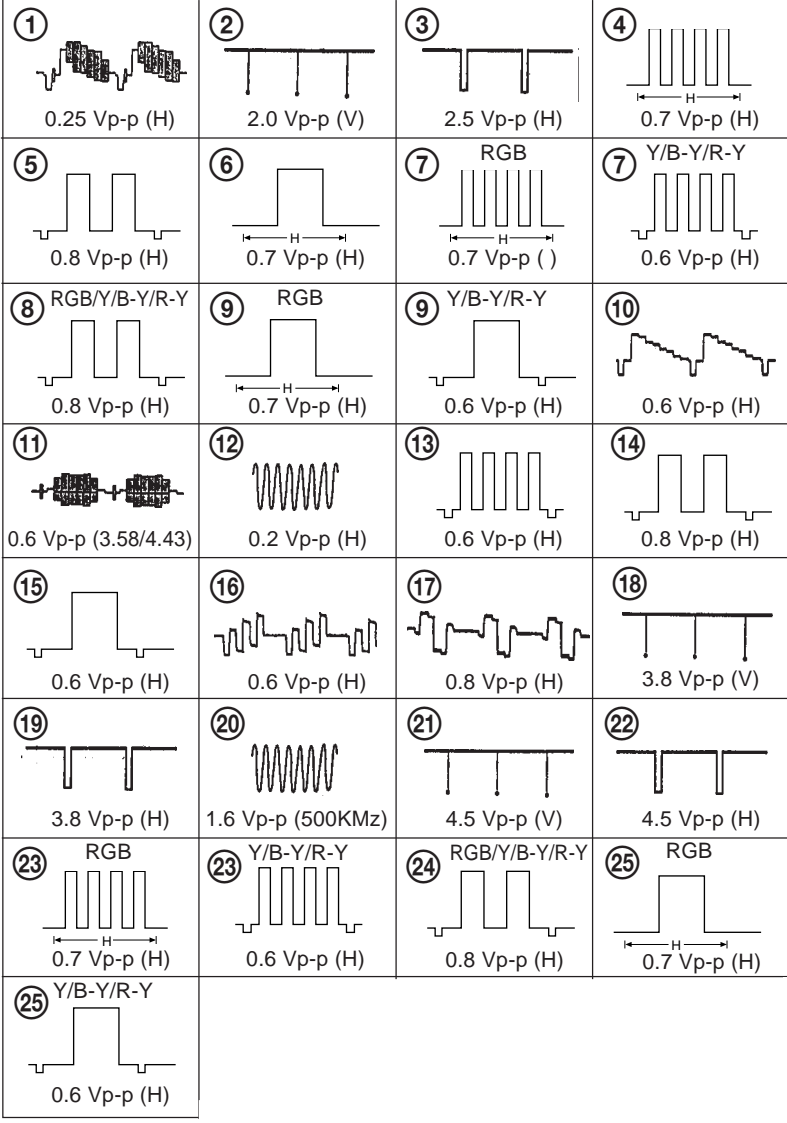
IC701	Pin No.	Voltage [V]	Ref.	Pin No.	Voltage [V]	Ref.	Pin No.	Voltage [V]	Ref.	Pin No.	Voltage [V]	
IC701	1	5.0	9	3.9	Q728	B	0	Q764	B	5		
	2	0	11	5.0	0	5	0	0	5			
	3	4.9	14	0.3								
	4	4.3	15	0.2	Q729	B	1	Q765	B	7.1	12.0	
	5	6.0	16	0	0	0	0	0	0	6.5	6.5	
	6	5.0	18	3.9	0	0	0	0	0	5.5	5.5	
	7	0	19	11.1	Q730	B	0	Q766	B	6.5		
	8	0	20	3.9	0	0	0	0	0	0		
	9	0	22	3.9								
	10	0	23	0								
	11	0	24	11.1	Q731	B	1.1	Q767	B	2.6	5.9	
	12	0	25	4.2								
	13	0	26	0								
	14	0	27	11.1	0	0	0	0	0	7.2		
	15	0	28	4.0	Q732	B	0	Q768	B	5.9		
	16	0	29	0	0	0	0	0	0	0		
	17	0	30	0								
	18	0	31	0								
	19	0	32	0								
	20	0	33	0								
	21	0	34	0								
	22	0	35	0								
	IC702	1	1.3	1	1.3	Q733	B	1.0	Q769	B	6.5	
		2	0	2	0							
3		4.3	13	5.0	Q734	B	0	Q770	B	2.6	7.1	
4		0	14	0	0	0	0	0	0	3.5		
5		0.6	16	5.0	0	0	0	0	0	7.9		
6		0	17	0								
7		0	18	0								
8		0	19	3.3	Q735	B	4.1	Q771	B	5.9		
9		0	20	0	0	0	0	0	0	0		
10		0	6	3.5	0	0	0	0	0	5.5		
11		0	7	0	0	0	0	0	0	0		
12		0	8	0	0	0	0	0	0	0		
13		1.3	14	3.6	Q736	B	4.1	Q772	B	6.5		
14		0	15	5	0	0	0	0	0	2.6		
15		0.7	16	0	0	0	0	0	0	5.9		
16		5.0	17	3.6	Q737	B	4.1	Q773	B	10.0		
IC703	1	0.3	1	0.3	Q738	B	1.2	Q774	B	5.9		
	2	0	2	0	0	0	0	0	0	0		
	3	1.1	4	0.6	0	0	0	0	0	4.6		
	4	6.4	4.4	0.6	Q738	B	4.1	Q1301	B	6.5		
	5	7.0	5.0	0.3	0	0	0	0	0	0		
	6	5.0	5.0	4.3	0	0	0	0	0	0		
	7	0	6	5.0	0	0	0	0	0	0		
	8	0	7	5.0	0	0	0	0	0	0		
	9	3.6	8	5.0	Q739	B	4.1	Q1302	B	4.7		
	10	0	9	0	0	0	0	0	0	0		
	11	1.8	10	4.3	0	0	0	0	0	0		
	12	0	11	5.0	0	0	0	0	0	0		
	13	2.3	12	5.0	Q740	B	4.1	Q1303	B	4.6		
	14	0	13	0	0	0	0	0	0	0		
	15	2.6	14	1.3	0	0	0	0	0	0		
	16	0	15	0	0	0	0	0	0	0		
	17	1.8	16	0.9	Q741	B	4.1	Q1304	B	3.6		
	18	0	17	0	0	0	0	0	0	0		
	19	0	18	0.7	0	0	0	0	0	9.0		
	20	0	19	0	0	0	0	0	0	0		
	21	0	20	1.2	Q742	B	1.7	Q1305	B	4.7		
	22	0	21	0	0	0	0	0	0	0		
	23	2.4	22	0	0	0	0	0	0	7.2		
	24	0	23	0	0	0	0	0	0	0		
IC704	1	0	0	0	Q743	B	0	Q1306	B	4.1	12.0	
	2	0	1	0	0	0	0	0	0	0		
	3	0	2	0.8	0	0	25	0	0	0		
	4	0	3	1.4	Q744	B	1.8	Q1307	B	3.0		
	5	13.3	4	0	0	0	0	0	0	0		
	6	0.7	5	0.9	0	0	0	0	0	9.6		
	7	0.7	6	1.5								
	8	0	7	0	Q745	B	0	Q1308	B	9.6		
	9	0	8	0	0	0	24	0	0	0		
	10	0	9	0.7	0	0	0	0	0	8.2		
	11	0	10	0.8	Q746	B	1.7	Q1309	B	9.6		
	12	0	11	1.4	0	0	0	0	0	0		
	13	0	12	0	0	0	0	0	0	0		
	14	0	13	0	0	0	0	0	0	0		
	15	0	14	0	0	0	0	0	0	0		
	16	0	15	0	0	0	0	0	0	0		
	17	0	16	4.1	Q747	B	2.4	Q1310	B	4.4		
	18	0	17	0.7	0	0	0	0	0	0		
	19	0	18	4.1	Q748	B	2.5	Q1311	B	4.2		
	20	0	19	0.7	0	0	0	0	0	0		
	21	0	20	4.1	0	0	5	0	0	0		
	22	0	21	0.7	Q749	B	2.4	Q1312	B	7.1		
	23	0	22	0	0	0	0	0	0	0		
	24	0	23	0	0	0	0	0	0	0		
IC705	1	0.6	1	0.6	Q750	B	1.7	Q1313	B	4.9		
	2	0	2	0	0	0	0	0	0	0		
	3	0.9	3	0	Q751	B	2.4	Q1314	B	0.6		
	4	0	4	0	0	0	0	0	0	0		
	5	0	5	0	0	0	0	0	0	0		
	6	0	6	0	0	0	0	0	0	0		
	7	0	7	0	0	0	0	0	0	0		
	8	0	8	0	0	0	0	0	0	0		
	9	0	9	0	0	0	0	0	0	0		
	10	0	10	0	0	0	0	0	0	0		
	11	0	11	0	0	0	0	0	0	0		
	12	0.8	12	0	Q751	B	0	Q1315	B	0.6		
	13	0	13	0	0	0	1.8	0	0	0		
	14	0.8	14	0	0	0	0	0	0	0		
	15	0	15	0	0	0	0	0	0	0		
	16	5.0	16	0	Q752	B	0	Q1316	B	5.0		
IC707	2	0.6	2	0.6	0	0	1.7	0	0	0		
	3	0	3	0	0	0	0	0	0	0		
	4	0.6	4	0	Q753	B	0.8	Q1317	B	0.1		
	5	0	5	0	0	0	2.9	0	0	0		
	6	0	6	0	0	0	3.3	Q1319	B	0.6		
	7	0	7	0	0	0	0	0	0	0		
	8	3.8	8	1.7	Q754	B	4.2	Q1320	B	0.1		
	9	0	9	0	0	0	12.8	0	0	0		
	10	0	10	0	0	0	0	0	0	0		
	11	0	11	0	0	0	0	0	0	0		
	12	0	12	0	0	0	0	0	0	0		
	13	2.0	13	2.8	Q755	B	4.0	Q1321	B	0.7		
	14	2.9	14	2.2	0	0	12	0	0	0		
	15	0	15	0	Q759	B	2.3	Q1320	B	0.1		
	16	0	16	0	0	0	0	0	0	0		
	IC706	1	0.6	1	0.6	Q760	B	0.5	Q1321	B	0.6	
2		0	2	0	0	0	0	0	0	0		
3		0	3	0	0	0	0	0	0	0		
4		0	4	0	0	0	0	0	0	0		
5		0	5	0	0	0	0	0	0	0		
6		0	6	0	0	0	0	0	0	0		
7		0	7	0	0	0	0	0	0	0		
8		0	8	0	0	0	0	0	0	0		
9		0	9	0	0	0	0	0	0	0		
10		0	10	0	0	0	0	0	0	0		
11		0	11	0	0	0	0	0	0	0		
12		0.8	12	0	Q761	B	0	Q1322	B	0.5		
13		0	13	0	0	0	0	0	0	0		
14		0	14	0	0	0	0	0	0	0		
15		0	15	0	0	0	0	0	0	0		
16		0	16	0	0	0	0	0	0	0		
IC707	1	12.0	1	12.0	Q768	B	0	Q1323	B	0		
	2	3.1	2	3.1	0	0	0.1	0	0	0		
	3	0	3	0	0	0	0	0	0	0		
	4	0	4	0	0	0	0	0	0	0		
	5	0	5	0	Q727	B	2.8	0	0	0		
	6	0	6	0	0	0	0	0	0	0		
	7	0	7	0	0	0	0	0	0	0		
	8	3.1	8	2.2	0	0	1.3	0	0	0		
	9	0	9	0	0	0	0	0	0	0		
	10	0	10	0	0	0	0	0	0	0		
	11	0	11	0	0	0	0	0	0	0		
	12	0	12	0	0	0	0	0	0	0		
	13	0	13	0	0	0	0	0	0	0		
	14	0	14	0	0	0	0	0	0	0		
	15	0	15	0	0	0	0	0	0	0		



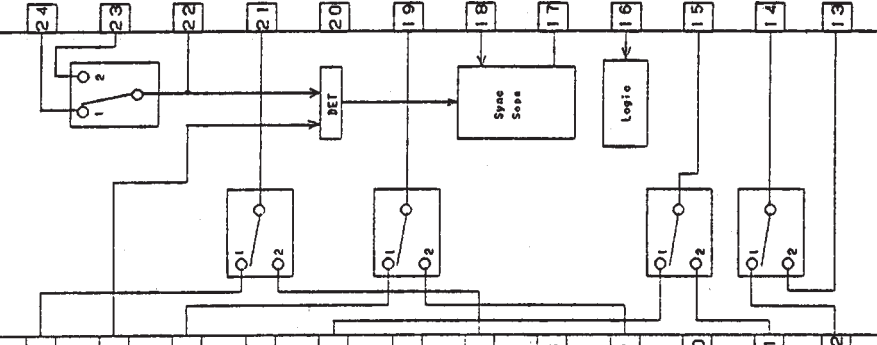
• A(2/10) BOARD VOLTAGE LIST

Ref.	Pin No.	Voltage [V]	Ref.	Pin No.	Voltage [V]
IC300	1	2.7		5	3.6
	2	3.0		7	0
	3	2.1		9	0
	7	3.0		11	0
IC301	1	2.7		15	2.1
	2	4.9		16	4.6
	3	2.1		17	0
	5	2.1		18	2.5
IC302	1	0.1	IC321	1	3.7
	2	2.5		2	3.7
	3	3.2		3	2.7
	4	1.8		4	3.1
IC303	1	2.1		5	1.9
	2	2.5		6	4.8
	3	2.1		7	5.0
	4	2.3		8	4.3
IC304	1	0		9	3.7
	2	2.5		10	4.0
	3	2.1		11	4.2
	4	2.3		12	2.2
IC305	1	2.1		13	3.0
	2	2.5		14	3.0
	3	2.1		15	2.7
	4	2.3		16	5.0
IC306	1	2.5		17	5.0
	2	4.8		18	2.5
	3	2.5		19	2.3
	4	2.9		20	2.8
IC307	1	2.3		21	2.8
	2	4.8		22	0
	3	2.3		23	0
	4	2.9		24	0
IC308	1	4.5		25	0
	2	0		26	0
	3	0		27	0
	4	0		28	0
IC309	1	4.9		29	1.7
	2	2.6		30	2.1
	3	0		31	2.6
	4	0		32	0.1
IC310	1	0		33	1.4
	2	0		34	5.0
	3	0		35	5.0
	4	0		36	2.3
IC311	1	4.8		37	2.2
	2	4.8		38	2.2
	3	4.8		39	2.6
	4	4.8		40	0
IC312	1	12.7		41	4.8
	2	12.0		42	4.8
	3	6.2		43	4.8
	4	5.0		44	4.8
IC313	1	1.8		45	4.8
	2	0		46	4.8
	3	0.7		47	4.8
	4	0		48	4.8
IC314	1	1.9		49	4.8
	2	5.0		50	4.8
	3	5.0		51	4.8
	4	1.2		52	4.8
IC315	1	1.4		53	4.8
	2	0		54	4.8
	3	2.0		55	4.8
	4	5.0		56	4.8
IC316	1	2.0		57	4.8
	2	5.0		58	4.8
	3	5.0		59	4.8
	4	1.4		60	4.8
IC317	1	2.5		61	4.8
	2	5.0		62	4.8
	3	5.0		63	4.8
	4	1.9		64	4.8
IC318	1	2.5		65	4.8
	2	5.0		66	4.8
	3	5.0		67	4.8
	4	1.9		68	4.8
IC319	1	2.5		69	4.8
	2	5.0		70	4.8
	3	5.0		71	4.8
	4	1.9		72	4.8

• A(2/10) BOARD WAVEFORMS



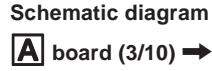
• A(2/10) BOARD IC319 BA7657F



A (2/10) (I/O DECODER)

Schematic diagram  
← **A** board (2/10)

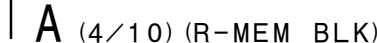
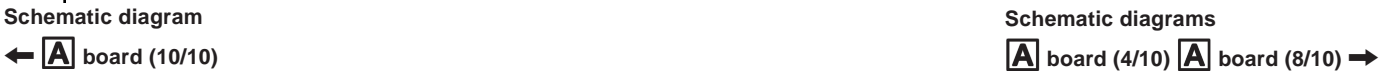
**Schematic diagram**  
**A** board (3/10) ➔



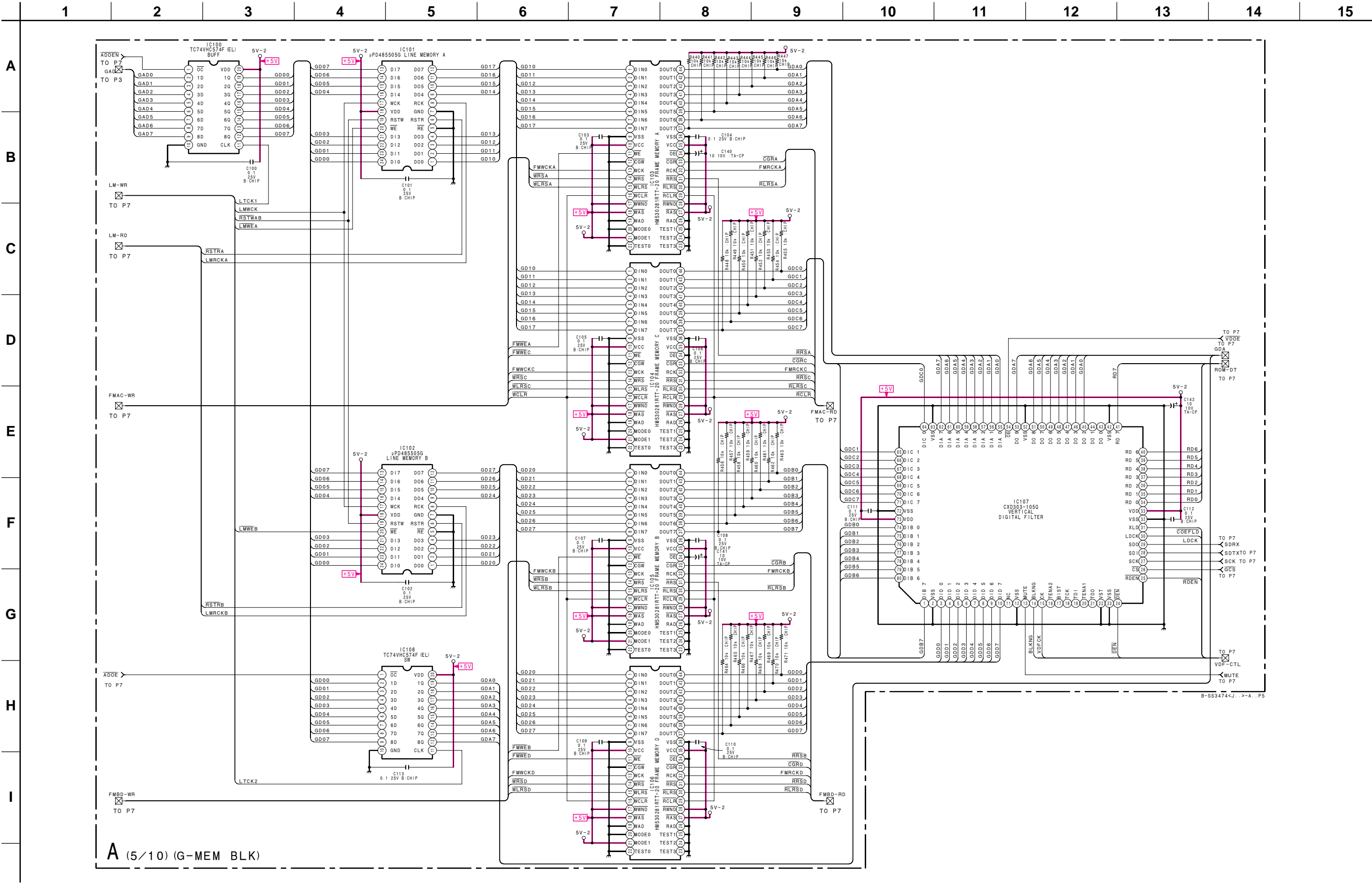


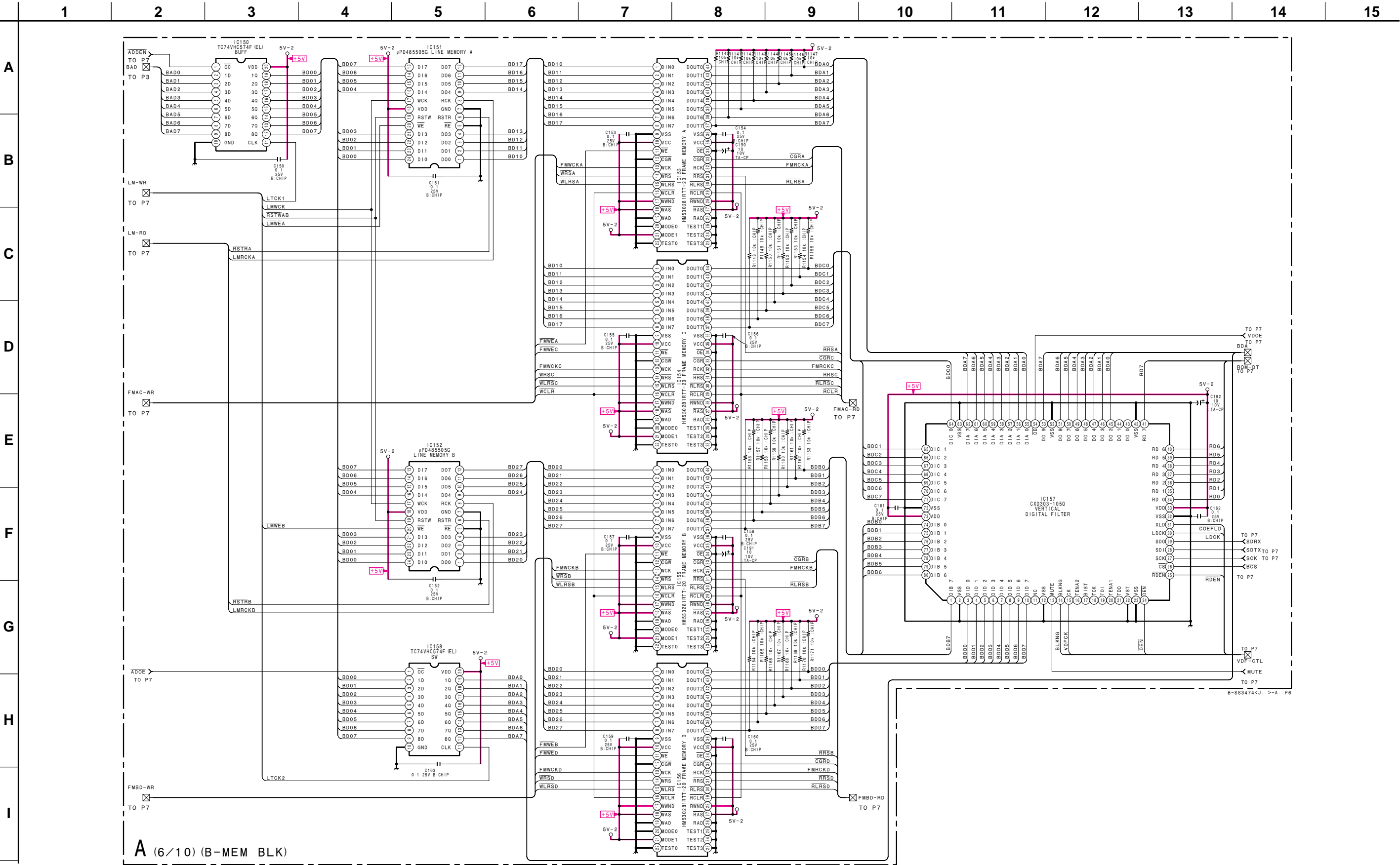


Ref.	Pin No.	Voltage [V]	Ref.	Pin No.	Voltage [V]	Ref.	Pin No.	Voltage [V]	Ref.	Pin No.	Voltage [V]	Ref.	Pin No.	Voltage [V]	Ref.	Pin No.	Voltage [V]	Ref.	Pin No.	Voltage [V]	Ref.	Pin No.	Voltage [V]	Ref.	Pin No.	Voltage [V]	Ref.	Pin No.	Voltage [V]	Ref.	Pin No.	Voltage [V]																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
IC501	1	1.2	Q508	B	1.2	E	0	0	Q518	B	0	E	0	0	Q527	B	1.2	E	0.9	C	2.7	Q556	B	5.0	E	0	Q568	B	1.2	E	0	Q576	B	0	C	5.0	Q585	B	1.2	E	0	Q604	B	1.2	C	0	0	Q616	B	0	C	5.0	E	0	Q628	B	1.2	C	0	0	Q640	B	0	C	5.0	E	0	Q652	B	0	C	5.0	E	0	Q664	B	0	C	5.0	E	0	Q676	B	0	C	5.0	E	0	Q688	B	0	C	5.0	E	0	Q699	B	0	C	5.0	E	0	Q711	B	0	C	5.0	E	0	Q723	B	0	C	5.0	E	0	Q735	B	0	C	5.0	E	0	Q747	B	0	C	5.0	E	0	Q759	B	0	C	5.0	E	0	Q771	B	0	C	5.0	E	0	Q783	B	0	C	5.0	E	0	Q795	B	0	C	5.0	E	0	Q807	B	0	C	5.0	E	0	Q819	B	0	C	5.0	E	0	Q831	B	0	C	5.0	E	0	Q843	B	0	C	5.0	E	0	Q855	B	0	C	5.0	E	0	Q867	B	0	C	5.0	E	0	Q879	B	0	C	5.0	E	0	Q891	B	0	C	5.0	E	0	Q903	B	0	C	5.0	E	0	Q915	B	0	C	5.0	E	0	Q927	B	0	C	5.0	E	0	Q939	B	0	C	5.0	E	0	Q951	B	0	C	5.0	E	0	Q963	B	0	C	5.0	E	0	Q975	B	0	C	5.0	E	0	Q987	B	0	C	5.0	E	0	Q999	B	0	C	5.0	E	0	Q1011	B	0	C	5.0	E	0	Q1023	B	0	C	5.0	E	0	Q1035	B	0	C	5.0	E	0	Q1047	B	0	C	5.0	E	0	Q1059	B	0	C	5.0	E	0	Q1071	B	0	C	5.0	E	0	Q1083	B	0	C	5.0	E	0	Q1095	B	0	C	5.0	E	0	Q1107	B	0	C	5.0	E	0	Q1119	B	0	C	5.0	E	0	Q1131	B	0	C	5.0	E	0	Q1143	B	0	C	5.0	E	0	Q1155	B	0	C	5.0	E	0	Q1167	B	0	C	5.0	E	0	Q1179	B	0	C	5.0	E	0	Q1191	B	0	C	5.0	E	0	Q1203	B	0	C	5.0	E	0	Q1215	B	0	C	5.0	E	0	Q1227	B	0	C	5.0	E	0	Q1239	B	0	C	5.0	E	0	Q1251	B	0	C	5.0	E	0	Q1263	B	0	C	5.0	E	0	Q1275	B	0	C	5.0	E	0	Q1287	B	0	C	5.0	E	0	Q1299	B	0	C	5.0	E	0	Q1311	B	0	C	5.0	E	0	Q1323	B	0	C	5.0	E	0	Q1335	B	0	C	5.0	E	0	Q1347	B	0	C	5.0	E	0	Q1359	B	0	C	5.0	E	0	Q1371	B	0	C	5.0	E	0	Q1383	B	0	C	5.0	E	0	Q1395	B	0	C	5.0	E	0	Q1407	B	0	C	5.0	E	0	Q1419	B	0	C	5.0	E	0	Q1431	B	0	C	5.0	E	0	Q1443	B	0	C	5.0	E	0	Q1455	B	0	C	5.0	E	0	Q1467	B	0	C	5.0	E	0	Q1479	B	0	C	5.0	E	0	Q1491	B	0	C	5.0	E	0	Q1503	B	0	C	5.0	E	0	Q1515	B	0	C	5.0	E	0	Q1527	B	0	C	5.0	E	0	Q1539	B	0	C	5.0	E	0	Q1551	B	0	C	5.0	E	0	Q1563	B	0	C	5.0	E	0	Q1575	B	0	C	5.0	E	0	Q1587	B	0	C	5.0	E	0	Q1599	B	0	C	5.0	E	0	Q1611	B	0	C	5.0	E	0	Q1623	B	0	C	5.0	E	0	Q1635	B	0	C	5.0	E	0	Q1647	B	0	C	5.0	E	0	Q1659	B	0	C	5.0	E	0	Q1671	B	0	C	5.0	E	0	Q1683	B	0	C	5.0	E	0	Q1695	B	0	C	5.0	E	0	Q1707	B	0	C	5.0	E	0	Q1719	B	0	C	5.0	E	0	Q1731	B	0	C	5.0	E	0	Q1743	B	0	C	5.0	E	0	Q1755	B	0	C	5.0	E	0	Q1767	B	0	C	5.0	E	0	Q1779	B	0	C	5.0	E	0	Q1791	B	0	C	5.0	E	0	Q1803	B	0	C	5.0	E	0	Q1815	B	0	C	5.0	E	0	Q1827	B	0	C	5.0	E	0	Q1839	B	0	C	5.0	E	0	Q1851	B	0	C	5.0	E	0	Q1863	B	0	C	5.0	E	0	Q1875	B	0	C	5.0	E	0	Q1887	B	0	C	5.0	E	0	Q1899	B	0	C	5.0	E	0	Q1911	B	0	C	5.0	E	0	Q1923	B	0	C	5.0	E	0	Q1935	B	0	C	5.0	E	0	Q1947	B	0	C	5.0	E	0	Q1959	B	0	C	5.0	E	0	Q1971	B	0	C	5.0	E	0	Q1983	B	0	C	5.0	E	0	Q1995	B	0	C	5.0	E	0	Q2007	B	0	C	5.0	E	0	Q2019	B	0	C	5.0	E	0	Q2031	B	0	C	5.0	E	0	Q2043	B	0	C	5.0	E	0	Q2055	B	0	C	5.0	E	0	Q2067	B	0	C	5.0	E	0	Q2079	B	0	C	5.0	E	0	Q2091	B	0	C	5.0	E	0	Q2103	B	0	C	5.0	E	0	Q2115	B	0	C	5.0	E	0	Q2127	B	0	C	5.0	E	0	Q2139	B	0	C	5.0	E	0	Q2151	B	0	C	5.0	E	0	Q2163	B	0	C	5.0	E	0	Q2175	B	0	C	5.0	E	0	Q2187	B	0	C	5.0	E	0	Q2199	B	0	C	5.0	E	0	Q2211	B	0	C	5.0	E	0	Q2223	B	0	C	5.0	E	0	Q2235	B	0	C	5.0	E	0	Q2247	B	0	C	5.0	E	0	Q2259	B	0	C	5.0	E	0	Q2271	B	0	C	5.0	E	0	Q2283	B	0	C	5.0	E	0	Q2295	B	0	C	5.0	E	0	Q2307	B	0	C	5.0	E	0	Q2319	B	0	C	5.0	E	0	Q2331	B	0	C	5.0	E	0	Q2343	B	0	C	5.0	E	0	Q2355	B	0	C	5.0	E	0	Q2367	B	0	C	5.0	E	0	Q2379	B	0	C	5.0	E	0	Q2391	B	0	C	5.0	E	0	Q2403	B	0	C	5.0	E	0	Q2415	B	0	C	5.0	E	0	Q2427	B	0	C	5.0	E	0	Q2439	B	0	C	5.0	E	0	Q2451	B	0	C	5.0	E	0	Q2463	B	0	C	5.0	E	0	Q2475	B	0	C	5.0	E	0	Q2487	B	0	C	5.0	E	0	Q2499	B	0	C	5.0	E	0	Q2511	B	0	C	5.0	E	0	Q2523	B	0	C	5.0	E	0	Q2535	B	0	C	5.0	E	0	Q2547	B	0	C	5.0	E	0	Q2559	B	0	C	5.0	E	0	Q2571	B	0	C	5.0	E	0	Q2583	B	0	C	5.0	E	0	Q2595	B	0	C	5.0	E	0	Q2607	B	0	C	5.0	E	0	Q2619	B	0	C	5.0	E	0	Q2631	B	0	C	5.0	E	0	Q2643	B	0	C	5.0	E	0	Q2655	B	0	C	5.0	E	0	Q2667	B	0	C	5.0	E	0	Q2679	B	0	C	5.0	E	0	Q2691	B	0	C	5.0	E	0	Q2703	B	0	C	5.0	E	0	Q2715	B	0	C	5.0	E	0	Q2727	B	0	C	5.0	E	0	Q2739	B	0	C	5.0	E	0	Q2751	B	0	C	5.0	E	0	Q2763	B	0	C	5.0	E	0	Q2775	B	0	C	5.0	E	0	Q2787	B	0	C	5.0	E	0	Q2799	B	0	C	5.0	E	0	Q2811	B	0	C	5.0	E	0	Q2823	B	0	C	5.0	E	0	Q2835	B	0	C	5.0	E	0	Q2847	B	0	C	5.0	E	0	Q2859	B	0	C	5.0	E	0	Q2871	B	0	C	5.0	E	0	Q2883	B	0	C	5.0	E	0	Q2895	B	0	C	5.0	E	0	Q2907	B	0	C	5.0	E	0	Q2919	B	0	C	5.0	E	0	Q2931	B	0	C	5.0	E	0	Q2943	B	0	C	5.0	E	0	Q2955	B	0	C	5.0	E	0	Q2967	B	0	C	5.0	E	0	Q2979	B	0	C	5.0	E	0	Q2991	B	0	C	5.0	E	0	Q3003	B	0	C	5.0	E	0	Q3015	B	0	C	5.0	E	0	Q3027	B	0	C	5.0	E	0	Q3039	B	0	C	5.0	E	0	Q3051	B	0	C	5.0	E	0	Q3063	B	0	C	5.0	E	0	Q3075	B	0	C	5.0	E	0	Q3087	B	0	C	5.0	E	0	Q3099	B	0	C	5.0	E	0	Q3111	B	0	C	5.0	E	0	Q3123	B	0	C	5.0	E	0	Q3135	B	0	C	5.0	E	0	Q3147	B	0	C	5.0	E	0	Q3159	B	0	C	5.0	E	0	Q3171	B	0	C	5.0	E	0	Q3183	B	0	C	5.0	E	0	Q3195	B	0	C	5.0	E	0	Q3207	B	0	C	5.0	E	0	Q3219	B	0	C	5.0	E	0	Q3231	B	0	C	5.0	E	0	Q3243	B	0	C	5.0	E	0	Q3255	B	0	C	5.0	E	0	Q3267	B	0	C	5.0	E	0	Q3279	B	0	C	5.0	E	0	Q3291	B	0	C	5.0	E	0	Q3303	B	0	C	5.0	E	0	Q3315	B	0	C	5.0	E	0	Q3327	B	0	C	5.0	E	0	Q3339	B	0	C	5.0	E	0	Q3351	B	0	C	5.0	E	0	Q3363	B	0	C	5.0	E	0	Q3375	B	0	C	5.0	E	0	Q3387	B	0	C	5.0	E	0	Q3399	B	0	C	5.0	E	0	Q3411	B	0	C	5.0	E	0	Q3423	B	0	C	5.0	E	0	Q3435	B	0	C	5.0	E	0	Q3447	B	0	C	5.0	E	0	Q3459	B	0	C	5.0	E	0	Q3471	B	0	C	5.0	E	0	Q3483	B	0	C	5.0	E	0	Q3495	B	0	C	5.0	E	0	Q3507	B	0	C	5.0	E	0	Q3519	B	0	C	5.0	E	0	Q3531	B	0	C	5.0	E	0	Q3543	B	0	C	5.0	E	0	Q3555	B	0	C	5.0	E	0	Q3567	B	0	C	5.0	E	0	Q3579	B	0	C	5.0	E	0	Q3591	B	0	C	5.0	E	0	Q3603	B	0	C	5.0	E	0	Q3615	B	0	C	5.0	E	0	Q3627	B	0	C	5.0	E	0	Q3639	B	0	C	5.0	E	0	Q3651	B	0	C	5.0	E	0	Q3663	B	0	C	5.0	E	0	Q3675	B	0	C	5.0	E	0	Q3687	B	0	C	5.0	E	0	Q3699	B	0	C	5.0	E	0	Q3711	B	0	C	5.0	E	0	Q3723	B	0	C	5.0	E	0	Q3735	B	0	C	5.0	E	0	Q3747	B	0	C	5.0	E	0	Q3759	B	0	C	5.0	E	0	Q3771	B	0	C







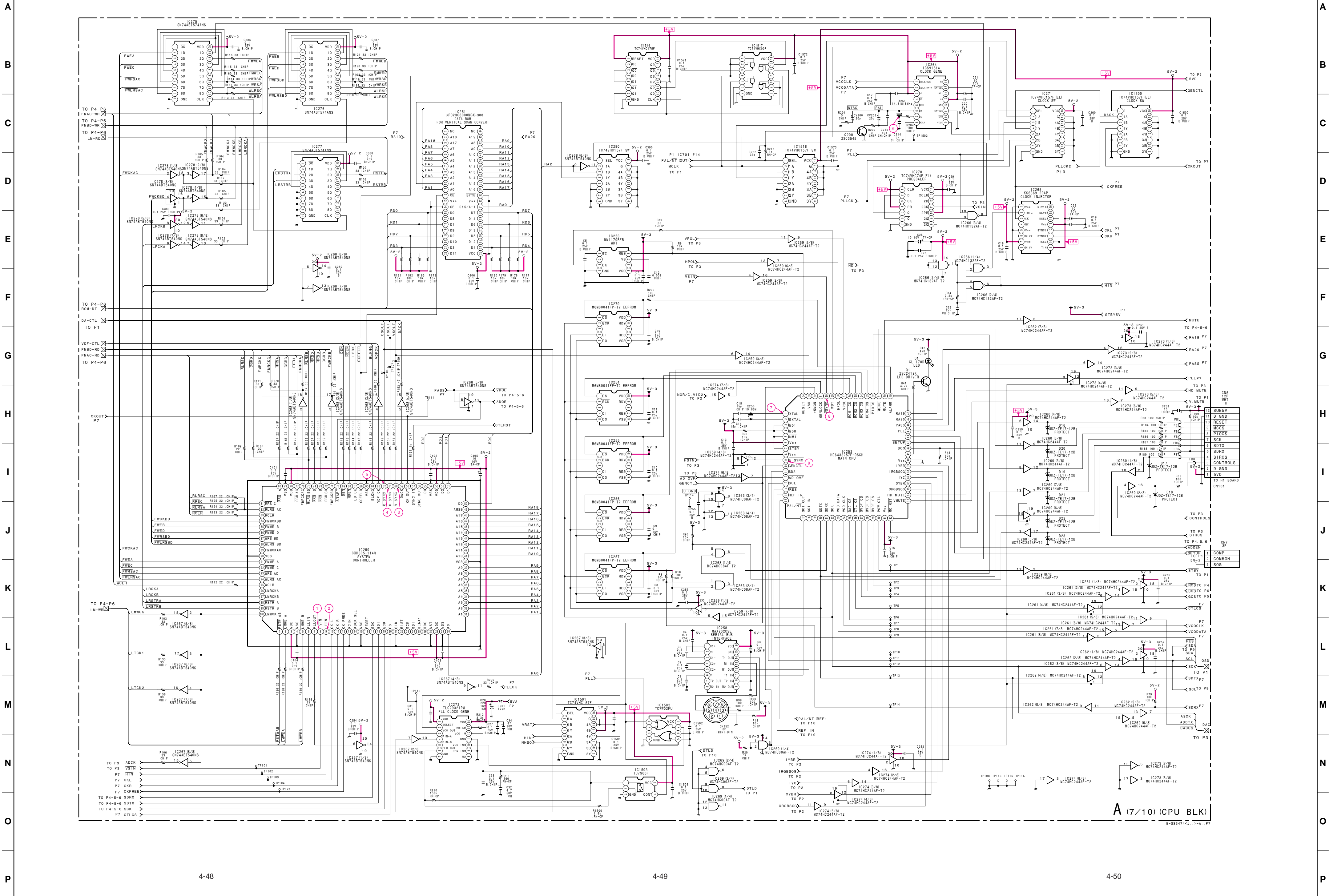


Schematic diagram

← A board (5/10)

Schematic diagram

A board (6/10) →



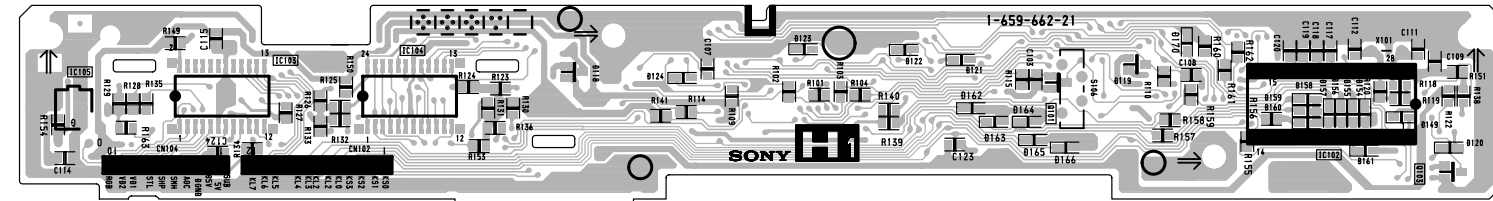
1-SS34745J...2-A...P



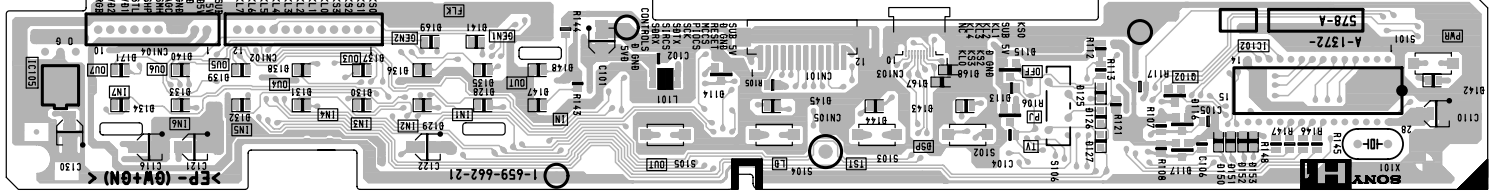
- H1 BOARD VOLTAGE LIST

Ref.	Pin No.	Voltage [V]	Ref.	Pin No.	Voltage [V]
IC102	1	5.0	IC104	1	0.2
	2	4.9		2	5.0
	3	4.9		3	5.0
	4	4.9		4	5.0
	5	4.9		5	5.0
	6	4.8		7	5.0
	7	4.9		8	5.0
	8	4.9		9	0.2
	9	4.9		10	5.0
	10	4.9		11	5.0
	11	4.9		12	0.2
	12	5.0		13	5.0
	13	5.0		14	5.0
	15	0.1		15	5.0
	19	4.1		16	5.0
	20	4		17	5.0
	21	4		19	0
	22	4.1		20	5.0
	23	5.0		21	5.0
	24	0		22	5.0
	25	5.0		23	5.0
	26	2		24	5.0
	27	2.0	IC105	1	5.0
	28	5.0		2	5.0
IC103	1	5.0	Q101	B	0
	2	5.0		C	5.0
	3	0		E	0
	4	0	Q102	B	0.1
	5	5.0		C	0
	7	0.1		E	4.9
	8	5.0	Q103	B	5.0
	9	0.1		C	0
	13	0.1		E	0
	14	5.0			
	15	5.0			
	16	5.0			
	17	5.0			

— H1 BOARD (Conductor side) —



— H1 BOARD (Component side) —

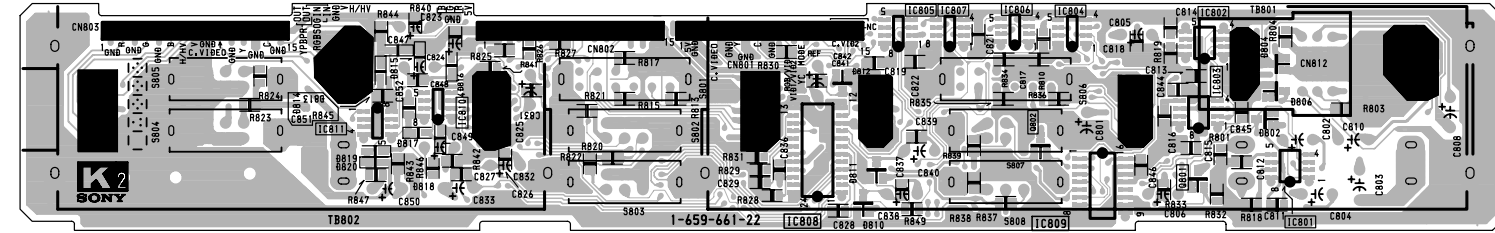


Ref.	*
Q101, Q103	①
Q102	②
D113–D117	⑦
D118, D119	⑧
D120–D145, D147–D171	③

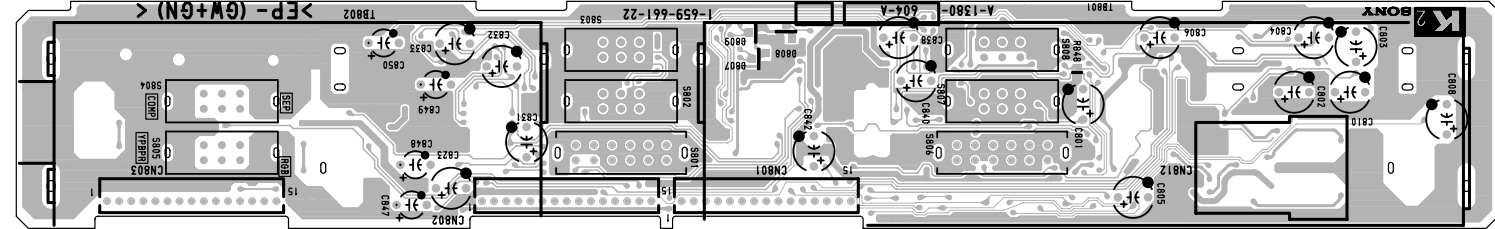
- K2 BOARD VOLTAGE LIST

Ref.	Pin No.	Voltage [V]	Ref.	Pin No.	Voltage [V]
IC801	1	1.4	IC806	5	0
	2	0		6	0
	3	1.5		7	5.0
	4	5.0		1	0
	5	1.4		2	0
	6	5.0		3	5.0
IC802	7	1.2		5	5.0
	1	1.4	IC807	6	4.8
	2	0		7	4.9
	3	1.5		1	0
	4	5.0		2	0
	5	1.4		3	5.0
IC803	6	5.0		5	0
	7	1.2		6	0
	1	2.8		7	5.0
	2	0	IC808	1	3.6
	3	2.8		2	0.1
	4	4.9		3	3.6
IC804	5	2.8		3	3.6
	6	5.0		5	3.6
	7	2.0		7	0
	1	0		9	0
	2	0		11	0
	3	5.0		14	0
IC805	5	0		15	2.1
	6	0		16	4.8
	7	5.0		17	0
	1	0		18	2.5
	2	5.0		19	2.1
	3	0		20	5.0
				21	2.1
				22	0

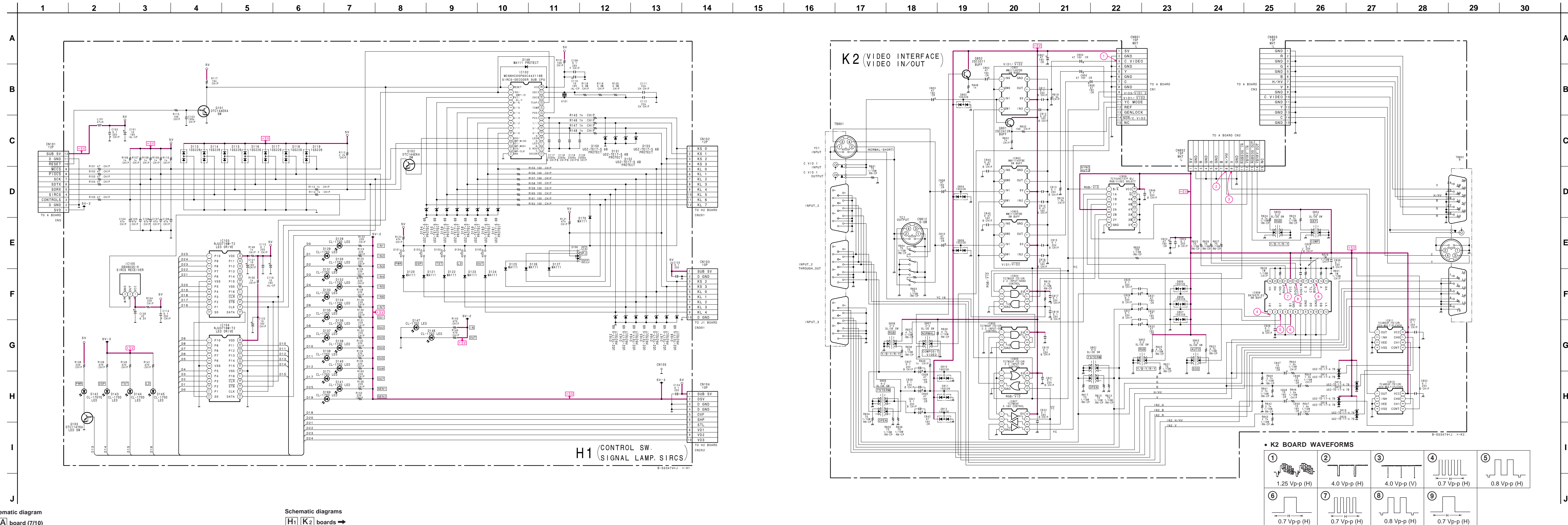
— K2 BOARD (Conductor side) —

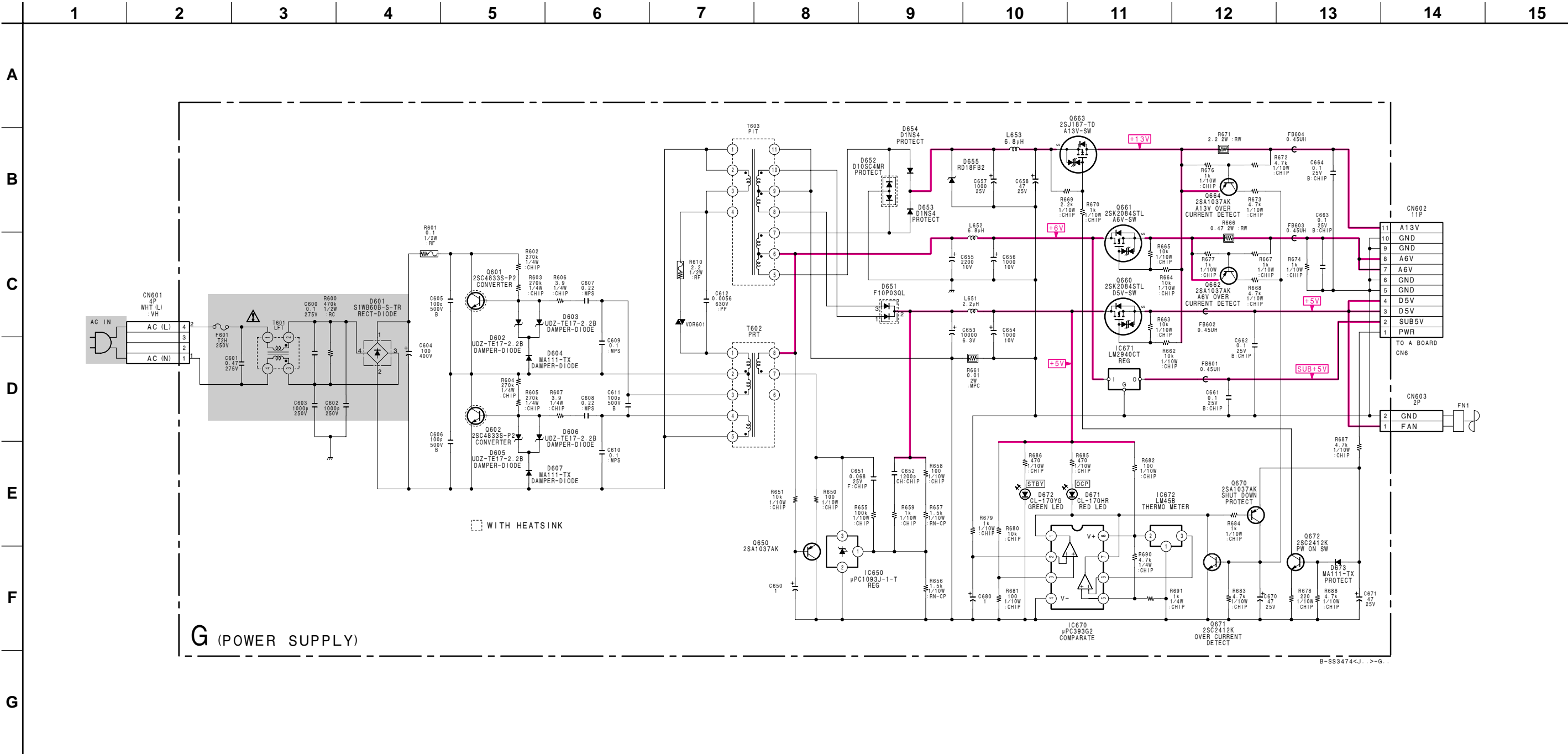


— K2 BOARD (Component side) —

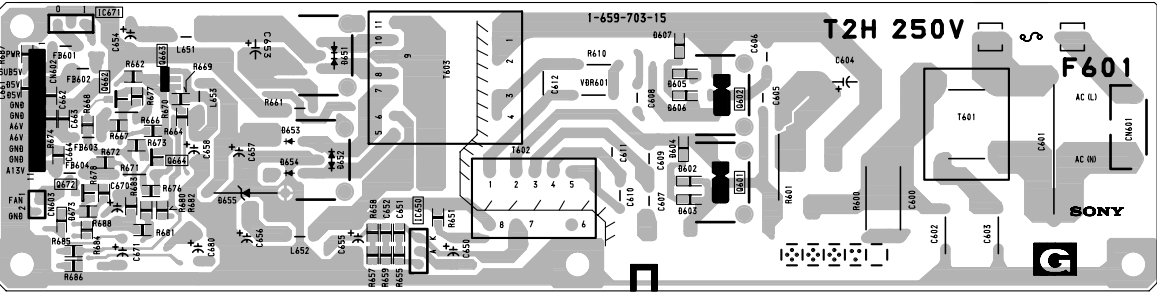


Ref.	*
Q801, Q802	①
D802, D804, D806 D810–D812	⑥
D813–D820	③
D807–D809	⑦





— G BOARD (Conductor Side) —



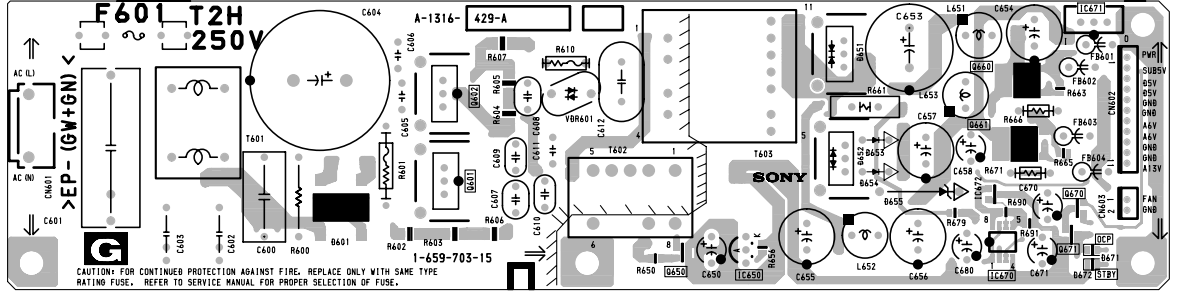
G BOARD

Terminal name of semiconductors in silk screen printed circuit (\*)

Ref.	*
Q650, Q670, Q671	②
Q660, Q661, Q663	①
Q662, Q664, Q672	①
D602-D607, D671-D673	③

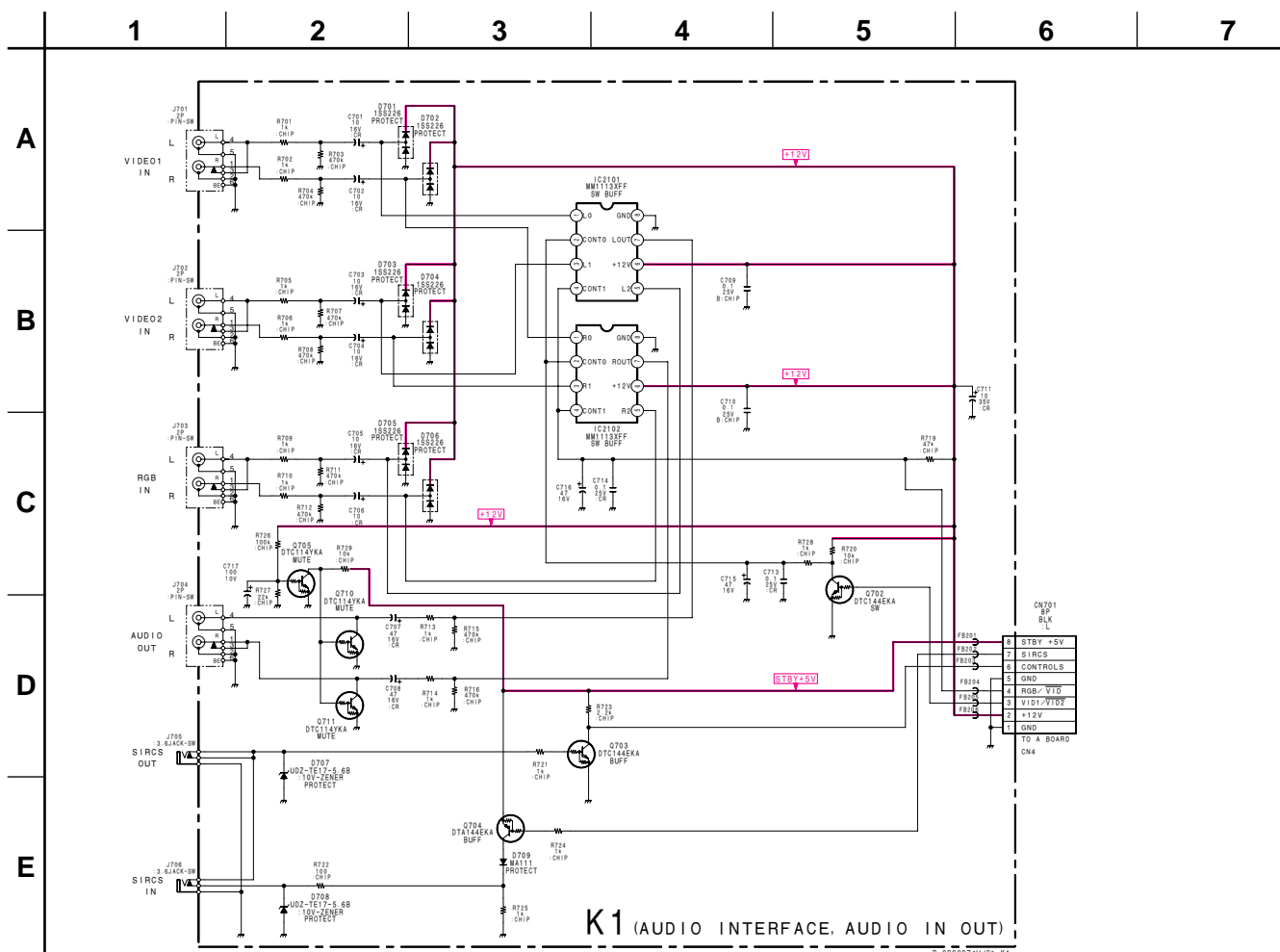
※: Refer to Terminal name of semiconductors in silk screen printed circuit (see page 4-11)

— G BOARD (Component Side) —



# (14) K1 Board (AUDIO IN/OUT, AUDIO INTER FACE)

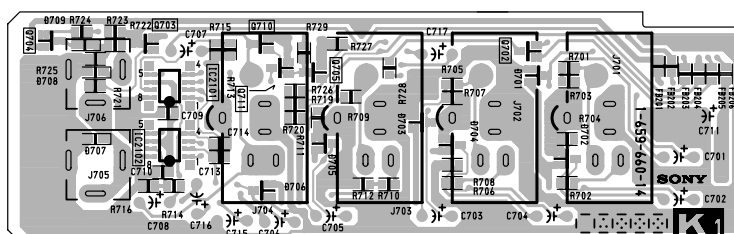
**K1** [AUDIO INTER FACE  
AUDIO IN/OUT]



## • K1 BOARD VOLTAGE LIST

Ref.	Pin No.	Voltage [V]	Ref.	Pin No.	Voltage [V]
IC2101	1	6.7	Q703	B	0
	2	0		C	5.0
	3	6.7		E	0
	4	4.8	Q704	B	5.0
	5	6.7		C	-0.1
	7	6.0			
IC2102	1	6.7	Q705	B	0
	2	0		C	-0.4
	3	6.7		E	0
	4	4.8	Q710	B	0.8
	5	6.7		C	0.8
	7	6.0		E	0
Q702	B	0	Q711	B	0.8
	C	0		C	0.8
	E	0		E	0.1

## — K1 BOARD (Conductor Side) —



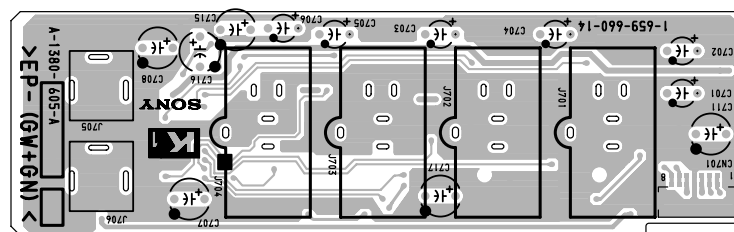
## K1 BOARD

Terminal name of semiconductors  
in silk screen printed circuit (\*)

Ref.	*
Q702-Q705, Q710, Q711	①
D701-D706	⑥
D707-D709	③

※: Refer to Terminal name of  
semiconductors in silk screen  
printed circuit (see page 4-11)

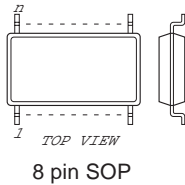
## — K1 BOARD (Component Side) —



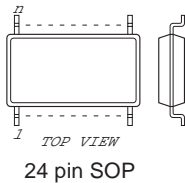


## 4-6. SEMICONDUCTORS

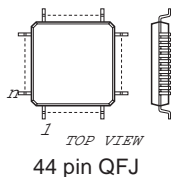
BA7046F  
BA7046F-T1  
CXA1211M  
CXA1211M-T4  
LM1881M  
LM1881MX  
LM358PS  
LM358PS-E05  
MM1113XFBE  
MM1113XFF  
MM1114XFF  
MM1170BFB  
MM1118XFF  
NJM2267M  
TC4W53F  
TC4W53FU  
TC7W00F  
TC7W00FU  
TC7W02FU  
TC7W04F  
TC7W32F  
TC74VHC175FS  
μPC393G2



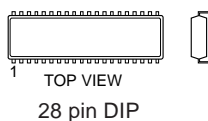
BA7657F-E2  
CXA1645M  
CXA1645M-T6  
NJU3716M  
SNY422-SONY  
μPC659AGS-E2



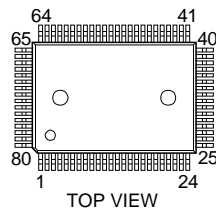
BT121KPJ80



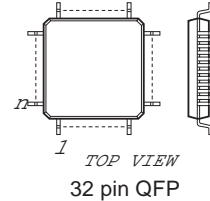
CXA1779P



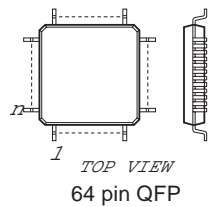
CXD2024AQ  
CXD303-105Q



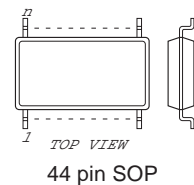
CXD2302Q  
CXD2302Q-T4



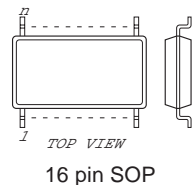
HD6433257F-DSCH



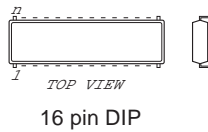
HM530281RTT-20  
HM530281-20  
μPC1830GT-E2  
μPD23C8000WGX-38B-E2



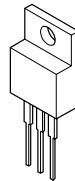
ICS9161A  
MAX202CSE  
MC74HC4051F  
MC74HC4051F-T2  
MC74HC4052F  
MC74HC4052F-T2  
MC74HC4053F  
MC74HC4053F-T2  
MC74HC4538F  
MC74HC4538F-T2  
MC74HC4538AFEL  
TC74AC157F-EL  
TC74HC123AF  
TC74HC153AF  
TC74HC163AF  
TC74VHC157F  
TC74VHC157F(EL)  
TC74VHC157FS  
TC74VHC175F  
TDA4665T-T



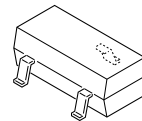
KS6369-20AP



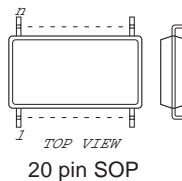
LM2940CT-5.0  
LM2940CT-12  
μPC24M12AHF  
μPC2405HF



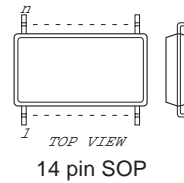
LM45BIM3X



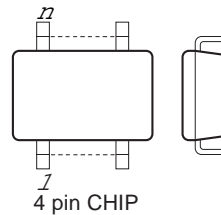
MC74HC244AF  
MC74HC244AF-T2  
M52036SP  
M62352GP-75E  
M62352GP-75EC  
SN74ABT540NS-E05  
SN74ABT574NS-E05  
TC74VHC574F  
TC74VHC574F(EL)



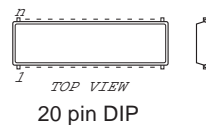
MC74HC00AF  
MC74HC00AF-T2  
MC74HC04AF  
MC74HC04AF-T2  
MC74HC08AF  
MC74HC08AF-T2  
MC74HC11F  
MC74HC11F-T2  
MC74HC132AF  
MC74HC132AF-T2  
MC74HC14AF  
MC74HC14AF-T2  
MC74HC30F  
MC74HC30FEL  
MC74HC4078F  
MC74HC4078FEL  
SN74HC14ANS  
TC74VHC00F  
TC74VHC74F  
TLC2932IPW



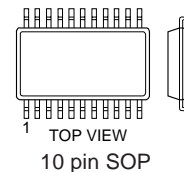
MM1031XML  
MM1041XM



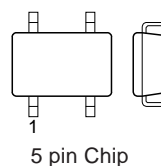
M52036SP



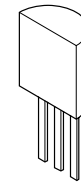
M6M80041FP  
M6M80041FP-T2



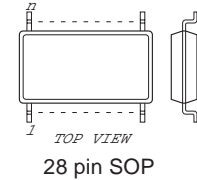
TC4S69F  
TC7S66F



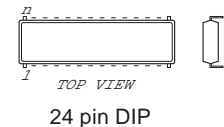
μPC1093J-1-T



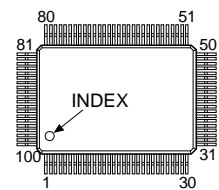
MC68HC05P6S442119B  
μPD42280GU-30  
μPD42280GU-30-E2



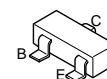
μPD485505G-25



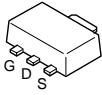
μPD6486GF-3BA  
CXD305-114Q



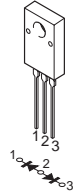
DTA114EKA-T146  
DTA124EKA-T146  
DTA144EKA-T146  
DTC114YKA-T146  
DTC124EK  
DTC124EKA-T146  
DTC144EKA  
DTC144EKA-T146  
2SA1037K-T146-QR  
2SA1037AK-T-146-R  
2SA1037AK-T-146-QR  
2SA1162-G  
2SC1623-L5L6  
2SC2412K-T-146-Q  
2SC2412K-T-146-S  
2SC3545



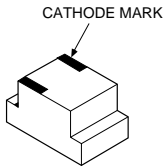
**2SJ187**



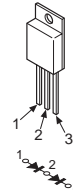
**D10SC4MR**



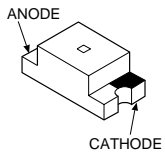
**CL-170D-CD-T**  
**CL-170YG-CD-T**



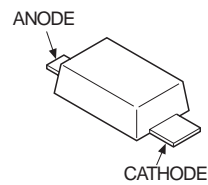
**F10P03QL**



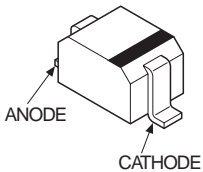
**CL-170HR-CD-T**



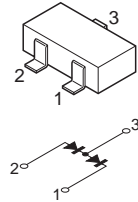
**MA77**



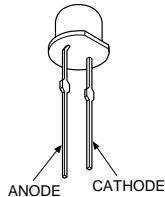
**DTZ4.7C**  
**MA111**  
**RD12SB2**  
**RD5.6S-B**  
**UDZ-TE-17-12B**  
**UDZ-TE-17-2.2B**  
**UDZ-TE-17-4.7B**  
**UDZ-TE-17-5.6B**  
**1SS355**  
**1SS355TE-17**



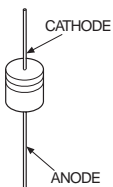
**MA157**  
**1SS226**



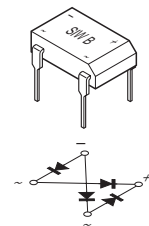
**SLR-33DC3F**



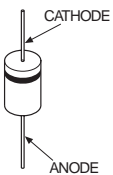
**D1NS4**



**S1WB60B-S-TR**




**D1NS4-TR**  
**RD2.2M-T1B**  
**RD18FB2**






SECTION 5  
EXPLODED VIEWS

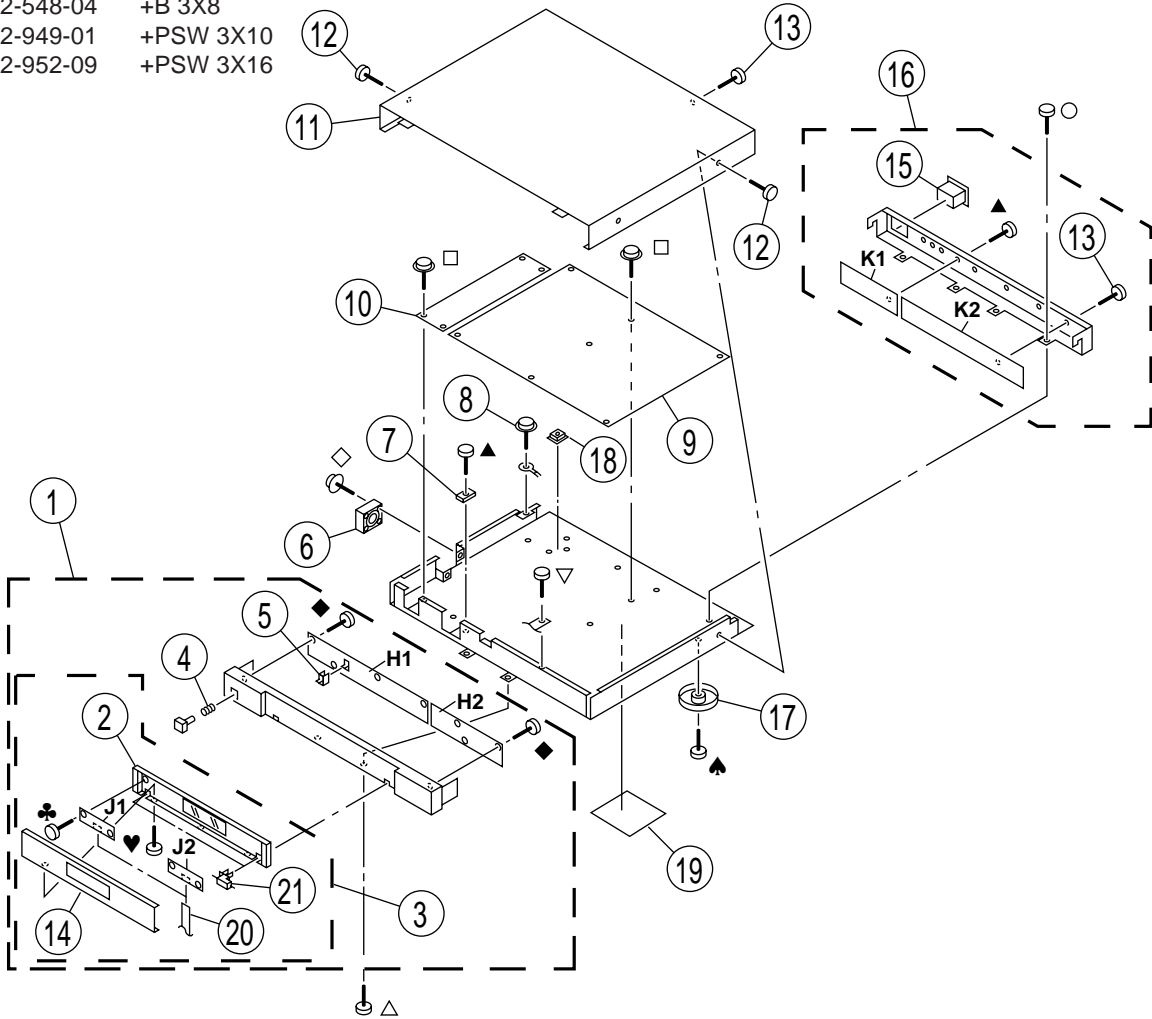
- Items with no part number and no description are not stocked because they are seldom required for routine service.
  - The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked " \* " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.


The components identified by shading and mark  are critical for safety. Replace only with part number specified.

Les composants identifiés per un tramé et une marque  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

5-1. CHASSIS

- ◆ 7-685-647-79 +BVTP 3X10
  - ▲ 7-685-646-79 +BVTP 3X8
  - 7-682-145-01 +P 3X4
  - △ 7-682-248-04 +K 3X8
  - ▽ 7-682-548-04 +B 3X8
  - 7-682-949-01 +PSW 3X10
  - ◇ 7-682-952-09 +PSW 3X16
- ♠ 7-685-872-09 +BVTT 3X8
  - ♣ 7-685-232-19 +KTP 2.6X5
  - ♥ 7-627-850-67 PRECISION SCREW +P 1.4X4

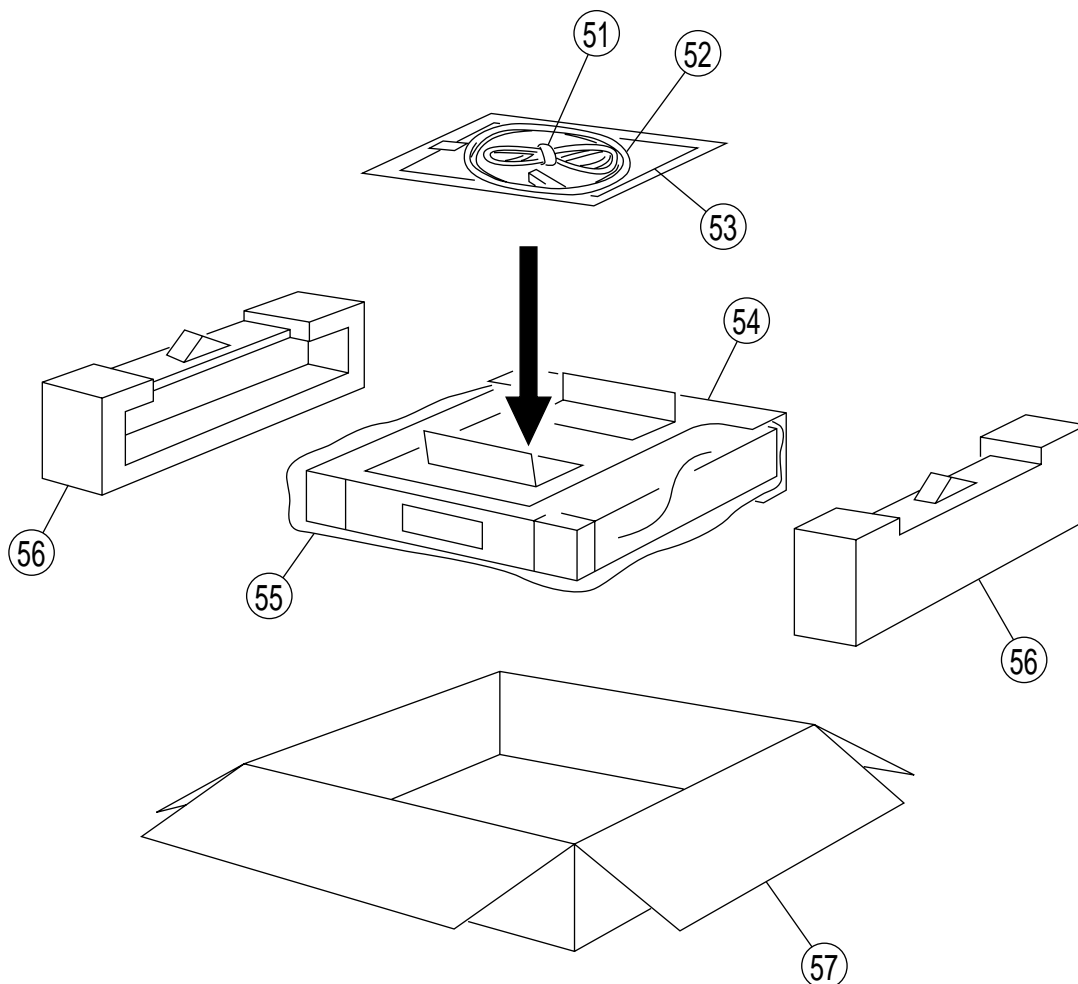


REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
1	* A-1484-206-A	FRONT BLOCK ASSY (H1/H2, J1/J2 BOARDS)	2-5, 14, 20, 21	12	4-847-802-11	SCREW, CASE STOPPER	
2	X-4033-528-4	PANEL ASSY, DOOR		13	3-703-685-21	SCREW (+BV 3X8)	
3	* A-1484-207-A	DOOR BLOCK ASSY	2, 14, 20, 21	14	4-052-862-04	DOOR	
4	3-571-801-01	SPRING, COMPRESSION		15	 1-251-050-21	INLET, AC	
5	4-052-854-01	KNOB, SWITCH		16	* A-1429-617-A	PANEL ASSY (K1/K2 BOARDS)	13, 15
6	1-698-756-11	MOTOR, DC FAN		17	X-3727-799-1	FOOT ASSY	
7	* 4-053-463-01	HOLDER (S), CORE		18	* 4-053-464-01	HOLDER (T), CORE	
8	4-389-025-01	SCREW (M4) (EXT TOOTH WASHER)		19	* 4-053-324-21	LABEL, INFORMATION	
9	* A-1298-750-A	A BOARD, COMPLETE		20	1-900-219-39	FPC ASSY (FLEXIBLE)	
10	* A-1316-429-A	G BOARD, COMPLETE		21	4-045-250-01	DAMPER	
11	* 4-052-863-01	COVER, TOP					

## 5-2. PACKING MATERIALS

The components identified by shading and mark  $\triangle$  are critical for safety. Replace only with part number specified.

Les composants identifiés par un tramé et une marque  $\triangle$  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
51	$\triangle$ 1-534-827-14	CORD, POWER (10A/125V)		55	* 3-704-295-01	BAG (STANDARD), PROTECTION	
52	1-590-226-11	CABLE (SMF-400)		56	* 4-052-715-01	CUSHION	
53	3-865-517-01	MANUAL, INSTRUCTION		57	* 4-067-568-01	INDIVIDUAL CARTON	
54	* 4-052-714-01	PARTITION					

# MEMO

# SECTION 6

## ELECTRICAL PARTS LIST



## NOTE:

The components identified by shading and mark  $\Delta$  are critical for safety. Replace only with part number specified.

Les composants identifiés par un tramé et une marque  $\Delta$  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

When indicating parts by reference number, please include the board name.

- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

## RESISTORS

- All resistors are in ohms
- F : nonflammable

• Items marked " \* " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

## CAPACITORS

MF :  $\mu$ F

## COIL

UH :  $\mu$ H

MMH : mH

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
	* A-1298-750-AA BOARD, COMPLETE *****			C103	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
				C104	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
				C105	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
				C106	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
	4-382-854-11	SCREW (M3X10), P, SW (+) (IC712, IC713, IC714)		C107	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
	<CAPACITOR>			C108	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C109	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C2	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C110	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C3	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C111	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C4	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C112	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C5	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C113	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C6	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C140	1-135-216-11	TANTAL. CHIP 10MF	20% 10V
C7	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C141	1-135-216-11	TANTAL. CHIP 10MF	20% 10V
C8	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C142	1-135-216-11	TANTAL. CHIP 10MF	20% 10V
C9	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C150	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C10	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C151	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C11	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C152	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C12	1-163-141-00	CERAMIC CHIP 0.001MF	5% 50V	C153	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C13	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C154	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C14	1-163-231-11	CERAMIC CHIP 15PF	5% 50V	C155	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C15	1-163-231-11	CERAMIC CHIP 15PF	5% 50V	C156	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C16	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C157	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C17	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C158	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C18	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C159	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C19	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C160	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C20	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C161	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C21	1-135-216-11	TANTAL. CHIP 10MF	20% 10V	C162	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C22	1-135-216-11	TANTAL. CHIP 10MF	20% 10V	C163	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C23	1-163-237-11	CERAMIC CHIP 27PF	5% 50V	C190	1-135-216-11	TANTAL. CHIP 10MF	20% 10V
C25	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C191	1-135-216-11	TANTAL. CHIP 10MF	20% 10V
C26	1-135-216-11	TANTAL. CHIP 10MF	20% 10V	C192	1-135-216-11	TANTAL. CHIP 10MF	20% 10V
C27	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C200	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C28	1-126-934-11	ELECT 220MF	20% 16V	C201	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C29	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C202	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C30	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C203	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C31	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C204	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C32	1-126-963-11	ELECT 4.7MF	20% 50V	C205	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C33	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C206	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C34	1-104-664-11	ELECT 47MF	20% 10V	C207	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C100	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C208	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C101	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C209	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C102	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C210	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
				C211	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
C212	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C360	1-164-489-11	CERAMIC CHIP 0.22MF	10% 16V
C213	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C361	1-163-227-11	CERAMIC CHIP 10PF	0.5PF 50V
C214	1-163-222-11	CERAMIC CHIP 5PF	0.25PF 50V	C362	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V
C215	1-163-227-11	CERAMIC CHIP 10PF	0.5PF 50V	C363	1-126-956-91	ELECT 0.1MF	20% 50V
C240	1-135-216-11	TANTAL. CHIP 10MF	20% 10V	C364	1-164-489-11	CERAMIC CHIP 0.22MF	10% 16V
C241	1-135-216-11	TANTAL. CHIP 10MF	20% 10V	C365	1-163-227-11	CERAMIC CHIP 10PF	0.5PF 50V
C242	1-135-216-11	TANTAL. CHIP 10MF	20% 10V	C366	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C250	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C367	1-164-489-11	CERAMIC CHIP 0.22MF	10% 16V
C251	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C368	1-164-489-11	CERAMIC CHIP 0.22MF	10% 16V
C252	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C369	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C253	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C370	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C254	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C371	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C255	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C372	1-126-965-11	ELECT 22MF	20% 50V
C256	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C374	1-163-251-11	CERAMIC CHIP 100PF	5% 50V
C257	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C378	1-107-716-11	ELECT 33MF	20% 16V
C259	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C379	1-107-716-11	ELECT 33MF	20% 16V
C260	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C380	1-107-716-11	ELECT 33MF	20% 16V
C261	1-126-964-11	ELECT 10MF	20% 50V	C381	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V
C262	1-102-963-00	CERAMIC 33PF	5% 50V	C382	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V
C317	1-107-701-11	ELECT 47MF	20% 16V	C383	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C318	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C384	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C319	1-107-701-11	ELECT 47MF	20% 16V	C385	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C320	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C386	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C321	1-107-701-11	ELECT 47MF	20% 16V	C387	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C322	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C388	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C323	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C389	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C329	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C390	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C330	1-163-239-11	CERAMIC CHIP 33PF	5% 50V	C391	1-126-963-11	ELECT 4.7MF	20% 50V
C331	1-163-131-00	CERAMIC CHIP 390PF	5% 50V	C392	1-126-964-11	ELECT 10MF	20% 50V
C332	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C393	1-126-933-11	ELECT 100MF	20% 16V
C333	1-163-127-00	CERAMIC CHIP 270PF	5% 50V	C394	1-126-960-11	ELECT 1MF	20% 50V
C335	1-126-960-11	ELECT 1MF	20% 50V	C395	1-126-960-11	ELECT 1MF	20% 50V
C336	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C396	1-126-964-11	ELECT 10MF	20% 50V
C337	1-126-960-11	ELECT 1MF	20% 50V	C401	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C338	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C402	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C339	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C403	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C340	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C404	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C341	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C405	1-135-216-11	TANTAL. CHIP 10MF	20% 10V
C342	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C406	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C343	1-104-664-11	ELECT 47MF	20% 16V	C501	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C344	1-104-664-11	ELECT 47MF	20% 16V	C502	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C345	1-104-664-11	ELECT 47MF	20% 16V	C503	1-126-933-11	ELECT 100MF	20% 16V
C346	1-126-961-11	ELECT 2.2MF	20% 50V	C504	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C347	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C505	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C348	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C506	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C349	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C507	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C350	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V	C508	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C351	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C509	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C352	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C510	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C353	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C511	1-126-933-11	ELECT 100MF	20% 16V
C354	1-164-489-11	CERAMIC CHIP 0.22MF	10% 16V	C512	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C355	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C513	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C356	1-126-934-11	ELECT 220MF	20% 16V	C514	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C357	1-126-960-11	ELECT 1MF	20% 50V	C515	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C358	1-163-275-11	CERAMIC CHIP 0.001MF	5% 50V	C516	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C359	1-126-963-11	ELECT 4.7MF	20% 50V	C517	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
C518	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C603	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C520	1-126-933-11	ELECT 100MF	20% 16V	C604	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C521	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C605	1-104-664-11	ELECT 47MF	20% 25V
C522	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C606	1-104-664-11	ELECT 47MF	20% 25V
C523	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C607	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C524	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C608	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C525	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C609	1-104-664-11	ELECT 47MF	20% 16V
C526	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C610	1-104-664-11	ELECT 47MF	20% 16V
C527	1-126-934-11	ELECT 220MF	20% 16V	C611	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C528	1-126-934-11	ELECT 220MF	20% 16V	C612	1-104-664-11	ELECT 47MF	20% 16V
C529	1-126-934-11	ELECT 220MF	20% 16V	C613	1-104-664-11	ELECT 47MF	20% 16V
C530	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V	C614	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C531	1-104-664-11	ELECT 47MF	20% 25V	C615	1-104-664-11	ELECT 47MF	20% 16V
C532	1-104-664-11	ELECT 47MF	20% 25V	C616	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V
C533	1-126-960-11	ELECT 1MF	20% 50V	C617	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C534	1-164-344-11	CERAMIC CHIP 0.068MF	10% 25V	C618	1-163-257-11	CERAMIC CHIP 180PF	5% 50V
C535	1-126-964-11	ELECT 10MF	20% 50V	C619	1-163-257-11	CERAMIC CHIP 180PF	5% 50V
C536	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V	C701	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C538	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C702	1-163-243-11	CERAMIC CHIP 47PF	5% 50V
C539	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C703	1-163-243-11	CERAMIC CHIP 47PF	5% 50V
C540	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C704	1-126-934-11	ELECT 220MF	20% 16V
C541	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C705	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C542	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C707	1-163-239-11	CERAMIC CHIP 33PF	5% 50V
C543	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C708	1-163-239-11	CERAMIC CHIP 33PF	5% 50V
C544	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C709	1-163-239-11	CERAMIC CHIP 33PF	5% 50V
C545	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C710	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C546	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C711	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C547	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C712	1-163-239-11	CERAMIC CHIP 33PF	5% 50V
C548	1-163-251-11	CERAMIC CHIP 100PF	5% 50V	C713	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V
C549	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C714	1-163-239-11	CERAMIC CHIP 33PF	5% 50V
C550	1-126-934-11	ELECT 220MF	20% 16V	C715	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C551	1-163-251-11	CERAMIC CHIP 100PF	5% 50V	C716	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C552	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C717	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C553	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C718	1-126-934-11	ELECT 220MF	20% 16V
C555	1-163-251-11	CERAMIC CHIP 100PF	5% 50V	C720	1-163-239-11	CERAMIC CHIP 33PF	5% 50V
C556	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C721	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C557	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C722	1-163-239-11	CERAMIC CHIP 33PF	5% 50V
C558	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C723	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C559	1-104-664-11	ELECT 47MF	20% 25V	C724	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C561	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C725	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C562	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C726	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C563	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C727	1-126-933-11	ELECT 100MF	20% 16V
C564	1-163-259-91	CERAMIC CHIP 220PF	5% 50V	C728	1-104-653-11	ELECT 220MF	20% 16V
C565	1-126-963-11	ELECT 4.7MF	20% 50V	C729	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C566	1-109-889-11	ELECT 1MF	20% 50V	C730	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C567	1-163-253-11	CERAMIC CHIP 120PF	5% 50V	C731	1-126-934-11	ELECT 220MF	20% 16V
C568	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C732	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C569	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C733	1-126-934-11	ELECT 220MF	20% 16V
C570	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C734	1-164-489-11	CERAMIC CHIP 0.22MF	10% 16V
C571	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C735	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C572	1-126-934-11	ELECT 220MF	20% 16V	C736	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C573	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C737	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C574	1-163-251-11	CERAMIC CHIP 100PF	5% 50V	C738	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C600	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C739	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C601	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C740	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C602	1-104-664-11	ELECT 47MF	20% 25V	C741	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V





REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
C742	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C806	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C743	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C807	1-126-933-11	ELECT 100MF	20% 16V
C744	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V	C808	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C745	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V	C809	1-126-933-11	ELECT 100MF	20% 16V
C746	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V	C810	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C747	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C811	1-126-933-11	ELECT 100MF	20% 16V
C748	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C812	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C749	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C813	1-126-934-11	ELECT 220MF	20% 16V
C750	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C814	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C751	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C815	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C752	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C816	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C753	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C817	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C754	1-126-933-11	ELECT 100MF	20% 16V	C818	1-126-934-11	ELECT 220MF	20% 16V
C755	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C819	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C756	1-128-526-11	ELECT 100MF	20% 16V	C820	1-126-934-11	ELECT 220MF	20% 16V
C757	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C821	1-126-934-11	ELECT 220MF	20% 16V
C758	1-163-257-11	CERAMIC CHIP 180PF	5% 50V	C822	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C759	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C823	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C761	1-126-933-11	ELECT 100MF	20% 16V	C824	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C762	1-126-933-11	ELECT 100MF	20% 16V	C825	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C763	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C826	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C764	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C827	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C765	1-126-934-11	ELECT 220MF	20% 16V	C828	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C766	1-163-222-11	CERAMIC CHIP 5PF	0.25PF 50V	C829	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C767	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C830	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C768	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C831	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C769	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C832	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C770	1-163-243-11	CERAMIC CHIP 47PF	5% 50V	C833	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C771	1-126-933-11	ELECT 100MF	20% 16V	C834	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C772	1-126-933-11	ELECT 100MF	20% 16V	C835	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C773	1-126-933-11	ELECT 100MF	20% 16V	C836	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C774	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V	C837	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C775	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C838	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C776	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V	C839	1-163-131-00	CERAMIC CHIP 390PF	5% 50V
C777	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V	C840	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C778	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V	C841	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C781	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C842	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C784	1-126-956-91	ELECT 0.1MF	20% 50V	C843	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C785	1-126-964-11	ELECT 10MF	20% 50V	C844	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C787	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C845	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C788	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C1001	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C790	1-126-934-11	ELECT 220MF	20% 16V	C1002	1-104-664-11	ELECT 47MF	20% 16V
C791	1-126-934-11	ELECT 220MF	20% 16V	C1003	1-104-664-11	ELECT 47MF	20% 16V
C792	1-126-934-11	ELECT 220MF	20% 16V	C1004	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C794	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C1005	1-104-664-11	ELECT 47MF	20% 16V
C795	1-126-767-11	ELECT 1000MF	20% 16V	C1006	1-163-231-11	CERAMIC CHIP 15PF	5% 50V
C796	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C1007	1-163-243-11	CERAMIC CHIP 47PF	5% 50V
C797	1-126-767-11	ELECT 1000MF	20% 16V	C1008	1-163-253-11	CERAMIC CHIP 120PF	5% 50V
C798	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C1009	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V
C799	1-126-767-11	ELECT 1000MF	20% 16V	C1010	1-126-964-11	ELECT 10MF	20% 50V
C800	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C1011	1-107-698-11	ELECT 10MF	20% 25V
C801	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C1012	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C802	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C1013	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C803	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C1014	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C804	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C1015	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C805	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C1016	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V





REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
C1017	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C1074	1-163-231-11	CERAMIC CHIP 15PF	5% 50V
C1018	1-104-665-11	ELECT 100MF	20% 10V	C1075	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1019	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C1076	1-126-964-11	ELECT 10MF	20% 50V
C1020	1-104-664-11	ELECT 47MF	20% 16V				
C1021	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C1077	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1023	1-104-664-11	ELECT 47MF	20% 16V	C1078	1-126-960-11	ELECT 1MF	20% 50V
C1024	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C1079	1-126-960-11	ELECT 1MF	20% 50V
C1025	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C1080	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1026	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C1081	1-104-664-11	ELECT 47MF	20% 16V
C1027	1-164-346-11	CERAMIC CHIP 1MF	16V	C1082	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V
C1028	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C1083	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V
C1029	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C1084	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V
C1030	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C1085	1-126-959-11	ELECT 0.47MF	20% 50V
C1031	1-104-664-11	ELECT 47MF	20% 16V	C1086	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1032	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C1087	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1033	1-104-664-11	ELECT 47MF	20% 16V	C1088	1-126-963-11	ELECT 4.7MF	20% 50V
C1034	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C1090	1-163-227-11	CERAMIC CHIP 10PF	0.5PF 50V
C1035	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V	C1091	1-163-227-11	CERAMIC CHIP 10PF	0.5PF 50V
C1036	1-104-664-11	ELECT 47MF	20% 16V	C1092	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1037	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C1093	1-104-664-11	ELECT 47MF	20% 16V
C1038	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V	C1094	1-163-243-11	CERAMIC CHIP 47PF	5% 50V
C1039	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V	C1095	1-163-113-00	CERAMIC CHIP 68PF	5% 50V
C1040	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C1096	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1041	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C1097	1-104-664-11	ELECT 47MF	20% 16V
C1042	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C1098	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1043	1-104-664-11	ELECT 47MF	20% 16V	C1099	1-104-664-11	ELECT 47MF	20% 16V
C1044	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V	C1100	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1045	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C1101	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V
C1046	1-104-664-11	ELECT 47MF	20% 16V	C1102	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V
C1047	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C1103	1-163-259-91	CERAMIC CHIP 220PF	5% 50V
C1048	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V	C1104	1-163-145-00	CERAMIC CHIP 0.0015MF	5% 50V
C1049	1-126-964-11	ELECT 10MF	20% 50V	C1105	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V
C1050	1-163-091-00	CERAMIC CHIP 8PF	0.25PF50V	C1106	1-126-963-11	ELECT 4.7MF	20% 50V
C1051	1-104-664-11	ELECT 47MF	20% 16V	C1107	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1052	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C1108	1-104-664-11	ELECT 47MF	20% 16V
C1053	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C1109	1-163-275-11	CERAMIC CHIP 0.001MF	5% 50V
C1054	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C1301	1-126-965-11	ELECT 22MF	20% 50V
C1055	1-104-664-11	ELECT 47MF	20% 16V	C1302	1-126-965-11	ELECT 22MF	20% 50V
C1056	1-126-964-11	ELECT 10MF	20% 50V	C1303	1-126-965-11	ELECT 22MF	20% 50V
C1057	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C1304	1-163-233-11	CERAMIC CHIP 18PF	5% 50V
C1058	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C1305	1-163-241-11	CERAMIC CHIP 39PF	5% 50V
C1059	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V	C1306	1-163-229-11	CERAMIC CHIP 12PF	5% 50V
C1060	1-164-346-11	CERAMIC CHIP 1MF	16V	C1307	1-126-964-11	ELECT 10MF	20% 50V
C1061	1-126-960-11	ELECT 1MF	20% 50V	C1308	1-126-964-11	ELECT 10MF	20% 50V
C1062	1-104-664-11	ELECT 47MF	20% 16V	C1309	1-126-964-11	ELECT 10MF	20% 50V
C1063	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C1310	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1064	1-163-241-11	CERAMIC CHIP 39PF	5% 50V	C1311	1-104-664-11	ELECT 47MF	20% 16V
C1065	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V	C1313	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1066	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C1314	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1067	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C1315	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1068	1-104-664-11	ELECT 47MF	20% 16V	C1319	1-163-251-11	CERAMIC CHIP 100PF	5% 50V
C1069	1-104-664-11	ELECT 47MF	20% 16V	C1320	1-163-251-11	CERAMIC CHIP 100PF	5% 50V
C1070	1-163-231-11	CERAMIC CHIP 15PF	5% 50V	C1500	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1071	1-163-237-11	CERAMIC CHIP 27PF	5% 50V	C1501	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1072	1-126-964-11	ELECT 10MF	20% 50V	C1502	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1073	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V	C1503	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
				C1504	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V

**A**

6-6



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
D336	8-719-800-76	DIODE 1SS226		D718	8-719-404-49	DIODE MA111	
D341	8-719-404-49	DIODE MA111		D719	8-719-404-49	DIODE MA111	
D342	8-719-404-49	DIODE MA111		D720	8-719-404-49	DIODE MA111	
D501	8-719-421-40	DIODE MA77		D721	8-719-404-49	DIODE MA111	
D502	8-719-421-40	DIODE MA77		D722	8-719-421-40	DIODE MA77	
D503	8-719-421-40	DIODE MA77					
D504	8-719-421-40	DIODE MA77		D723	8-719-421-40	DIODE MA77	
D505	8-719-421-40	DIODE MA77		D724	8-719-421-40	DIODE MA77	
D506	8-719-421-40	DIODE MA77		D725	8-719-421-40	DIODE MA77	
D508	8-719-800-76	DIODE 1SS226		D726	8-719-421-40	DIODE MA77	
D510	8-719-800-76	DIODE 1SS226		D727	8-719-421-40	DIODE MA77	
D512	8-719-800-76	DIODE 1SS226		D1001	8-719-988-62	DIODE 1SS355	
D514	8-719-800-76	DIODE 1SS226		D1002	8-719-988-62	DIODE 1SS355	
D516	8-719-800-76	DIODE 1SS226		D1501	8-719-404-49	DIODE MA111	
D518	8-719-800-76	DIODE 1SS226		D1502	8-719-421-40	DIODE MA77	
D520	8-719-421-40	DIODE MA77					
D521	8-719-421-40	DIODE MA77					
D522	8-719-421-40	DIODE MA77					
D523	8-719-421-40	DIODE MA77					
D524	8-719-421-40	DIODE MA77					
D526	8-719-800-76	DIODE 1SS226					
D528	8-719-800-76	DIODE 1SS226					
D530	8-719-800-76	DIODE 1SS226					
D532	8-719-800-76	DIODE 1SS226					
D534	8-719-800-76	DIODE 1SS226					
D536	8-719-800-76	DIODE 1SS226					
D537	8-719-421-40	DIODE MA77					
D538	8-719-421-40	DIODE MA77					
D539	8-719-421-40	DIODE MA77					
D540	8-719-421-40	DIODE MA77					
D541	8-719-421-40	DIODE MA77					
D542	8-719-421-40	DIODE MA77					
D544	8-719-800-76	DIODE 1SS226					
D546	8-719-800-76	DIODE 1SS226					
D548	8-719-800-76	DIODE 1SS226					
D550	8-719-800-76	DIODE 1SS226					
D552	8-719-800-76	DIODE 1SS226					
D554	8-719-800-76	DIODE 1SS226					
D555	8-719-421-40	DIODE MA77					
D701	8-719-404-49	DIODE MA111					
D702	8-719-404-49	DIODE MA111					
D703	8-719-404-49	DIODE MA111					
D704	8-719-421-40	DIODE MA77					
D705	8-719-421-40	DIODE MA77					
D706	8-719-421-40	DIODE MA77					
D707	8-719-421-40	DIODE MA77					
D708	8-719-421-40	DIODE MA77					
D709	8-719-421-40	DIODE MA77					
D710	8-719-421-40	DIODE MA77					
D711	8-719-421-40	DIODE MA77					
D712	8-719-421-40	DIODE MA77					
D713	8-719-421-40	DIODE MA77					
D714	8-719-421-40	DIODE MA77					
D715	8-719-421-40	DIODE MA77					
D716	8-719-404-49	DIODE MA111					
D717	8-719-404-49	DIODE MA111					

# DSC-1024HD



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
FL517	1-233-582-11	FILTER, LOW PASS		IC253	8-759-162-80	IC MM1170BFB	
FL518	1-233-581-11	FILTER, LOW PASS		IC254	8-759-080-93	IC M6M80041FP	
FL701	1-233-587-11	FILTER, LOW PASS		IC255	8-759-080-93	IC M6M80041FP	
FL702	1-233-586-11	FILTER, LOW PASS		IC256	8-759-080-93	IC M6M80041FP	
FL703	1-233-587-11	FILTER, LOW PASS		IC257	8-759-080-93	IC M6M80041FP	
FL704	1-233-586-11	FILTER, LOW PASS		IC258	8-759-252-59	IC MAX202CSE	
FL705	1-233-587-11	FILTER, LOW PASS		IC259	8-759-032-53	IC MC74HC244AF	
FL706	1-233-586-11	FILTER, LOW PASS		IC260	8-759-032-53	IC MC74HC244AF	
FL1001	1-239-384-11	FILTER, EMI		IC261	8-759-032-53	IC MC74HC244AF	
FL1002	1-543-775-11	FERRITE		IC262	8-759-032-53	IC MC74HC244AF	
FL1003	1-543-775-11	FERRITE		IC263	8-759-032-14	IC MC74HC08AF	
FL1007	1-414-234-22	INDUCTOR CHIP		IC264	8-759-362-35	IC ICS9161A-01CW16T	
FL1008	1-414-234-22	INDUCTOR CHIP		IC265	8-759-364-08	IC KS6369-20AP	
FL1009	1-543-775-11	FERRITE		IC266	8-759-032-32	IC MC74HC132AF	
FL1010	1-543-775-11	FERRITE		IC267	8-759-373-60	IC SN74ABT540NS-E05	
FL1011	1-543-775-11	FERRITE		IC268	8-759-373-60	IC SN74ABT540NS-E05	
FL1012	1-239-847-11	FILTER, LOW PASS		IC269	8-759-032-01	IC MC74HC00AF	
FL1013	1-239-384-11	FILTER, EMI		IC270	8-759-186-39	IC TC74VHC74F	
FL1014	1-239-384-11	FILTER, EMI		IC271	8-759-186-51	IC TC74VHC157F	
FL1015	1-239-847-11	FILTER, LOW PASS		IC272	8-759-295-09	IC TLC2932IPW	
FL1016	1-239-847-11	FILTER, LOW PASS		IC273	8-759-032-53	IC MC74HC244AF	
FL1017	1-543-775-11	FERRITE		IC274	8-759-032-53	IC MC74HC244AF	
FL1500	1-239-384-11	FILTER, EMI		IC275	8-759-461-57	IC SN74ABT574ANS-E05	
FL1501	1-239-847-11	FILTER, LOW PASS		IC276	8-759-461-57	IC SN74ABT574ANS-E05	
	<IC>			IC277	8-759-461-57	IC SN74ABT574ANS-E05	
IC100	8-759-175-27	IC TC74VHC574F		IC278	8-759-373-60	IC SN74ABT540NS-E05	
IC101	8-759-196-73	IC UPD485505G-25		IC279	8-759-080-93	IC M6M80041FP	
IC102	8-759-196-73	IC UPD485505G-25		IC280	8-759-186-51	IC TC74VHC157F	
IC103	8-759-179-94	IC HM530281-20		IC300	8-752-053-21	IC CXA1211M	
IC104	8-759-179-94	IC HM530281-20		IC301	8-752-053-21	IC CXA1211M	
IC105	8-759-179-94	IC HM530281-20		IC302	8-759-011-65	IC MC74HC4053F	
IC106	8-759-179-94	IC HM530281-20		IC303	8-759-011-65	IC MC74HC4053F	
IC107	8-752-375-92	IC CXD303-105Q		IC304	8-759-635-27	IC M62352GP-75E	
IC108	8-759-175-27	IC TC74VHC574F		IC305	8-759-288-85	IC TDA4665T-T	
IC150	8-759-175-27	IC TC74VHC574F		IC306	8-759-082-61	IC TC4W53FU	
IC151	8-759-196-73	IC UPD485505G-25		IC307	8-759-082-61	IC TC4W53FU	
IC152	8-759-196-73	IC UPD485505G-25		IC308	8-759-082-61	IC TC4W53FU	
IC153	8-759-179-94	IC HM530281-20		IC314	8-759-073-54	IC TC74AC157F-EL	
IC154	8-759-179-94	IC HM530281-20		IC317	8-759-011-64	IC MC74HC4052F	
IC155	8-759-179-94	IC HM530281-20		IC318	8-759-032-11	IC MC74HC04AF	
IC156	8-759-179-94	IC HM530281-20		IC319	8-759-360-07	IC BA7657F-E2	
IC157	8-752-375-92	IC CXD303-105Q		IC321	8-759-372-18	IC UPC1830GT-E2	
IC158	8-759-175-27	IC TC74VHC574F		IC322	8-759-177-02	IC NJM2267M(Te2)	
IC200	8-759-175-27	IC TC74VHC574F		IC501	8-759-011-63	IC MC74HC4051F	
IC201	8-759-196-73	IC UPD485505G-25		IC502	8-759-635-27	IC M62352GP-75E	
IC202	8-759-196-73	IC UPD485505G-25		IC503	8-759-637-31	IC M52036SP	
IC203	8-759-179-94	IC HM530281-20		IC504	8-759-983-69	IC LM358PS	
IC204	8-759-179-94	IC HM530281-20		IC505	8-752-070-09	IC CXA1779P	
IC205	8-759-179-94	IC HM530281-20		IC506	8-759-198-31	IC UPC1093J-1-T	
IC206	8-759-179-94	IC HM530281-20		IC507	8-759-007-50	IC MC74HC11F	
IC207	8-752-375-92	IC CXD303-105Q		IC508	8-759-925-80	IC SN74HC14ANS	
IC208	8-759-175-27	IC TC74VHC574F		IC509	8-759-198-31	IC UPC1093J-1-T	
IC250	8-752-377-98	IC CXD305-114Q		IC510	8-759-198-31	IC UPC1093J-1-T	
IC251	8-759-388-28	IC UPD23C8000WGX-388-E2		IC511	8-752-371-18	IC CXD2302Q	
IC252	8-759-569-79	IC HD6433257F-DSCH		IC512	8-752-371-18	IC CXD2302Q	
				IC513	8-752-371-18	IC CXD2302Q	







REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
Q316	8-729-120-28	TRANSISTOR 2SC1623-L5L6		Q535	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q317	8-729-120-28	TRANSISTOR 2SC1623-L5L6		Q536	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q318	8-729-120-28	TRANSISTOR 2SC1623-L5L6		Q537	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q320	8-729-120-28	TRANSISTOR 2SC1623-L5L6		Q538	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q321	8-729-120-28	TRANSISTOR 2SC1623-L5L6		Q539	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q322	8-729-120-28	TRANSISTOR 2SC1623-L5L6					
Q323	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		Q540	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q324	8-729-120-28	TRANSISTOR 2SC1623-L5L6		Q541	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q325	8-729-120-28	TRANSISTOR 2SC1623-L5L6		Q542	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q326	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		Q543	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q327	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		Q544	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q328	8-729-901-00	TRANSISTOR DTC124EK					
Q329	8-729-027-23	TRANSISTOR DTA114EKA-T146		Q545	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q351	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		Q546	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q352	8-729-120-28	TRANSISTOR 2SC1623-L5L6		Q547	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q353	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		Q548	8-729-027-46	TRANSISTOR DTC114YKA-T146	
				Q549	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q354	8-729-027-31	TRANSISTOR DTA124EKA-T146		Q550	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q355	8-729-120-28	TRANSISTOR 2SC1623-L5L6		Q551	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q356	8-729-027-38	TRANSISTOR DTA144EKA-T146		Q552	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q357	8-729-027-38	TRANSISTOR DTA144EKA-T146		Q553	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q358	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		Q554	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q359	8-729-027-38	TRANSISTOR DTA144EKA-T146		Q555	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q501	8-729-120-28	TRANSISTOR 2SC1623-L5L6		Q556	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q502	8-729-120-28	TRANSISTOR 2SC1623-L5L6		Q557	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q503	8-729-120-28	TRANSISTOR 2SC1623-L5L6		Q558	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q504	8-729-120-28	TRANSISTOR 2SC1623-L5L6		Q559	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q505	8-729-120-28	TRANSISTOR 2SC1623-L5L6					
Q506	8-729-120-28	TRANSISTOR 2SC1623-L5L6		Q560	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q507	8-729-027-46	TRANSISTOR DTC114YKA-T146		Q561	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q508	8-729-027-46	TRANSISTOR DTC114YKA-T146		Q562	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q509	8-729-027-46	TRANSISTOR DTC114YKA-T146		Q563	8-729-027-46	TRANSISTOR DTC114YKA-T146	
				Q564	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q510	8-729-027-46	TRANSISTOR DTC114YKA-T146		Q565	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q511	8-729-027-46	TRANSISTOR DTC114YKA-T146		Q566	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q512	8-729-027-46	TRANSISTOR DTC114YKA-T146		Q567	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q513	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		Q568	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q514	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		Q569	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q515	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		Q570	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q516	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		Q571	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q517	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		Q572	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q518	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		Q573	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q519	8-729-120-28	TRANSISTOR 2SC1623-L5L6		Q574	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q520	8-729-120-28	TRANSISTOR 2SC1623-L5L6		Q575	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q521	8-729-120-28	TRANSISTOR 2SC1623-L5L6		Q576	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q522	8-729-120-28	TRANSISTOR 2SC1623-L5L6		Q577	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q523	8-729-120-28	TRANSISTOR 2SC1623-L5L6		Q578	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q524	8-729-120-28	TRANSISTOR 2SC1623-L5L6		Q579	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q525	8-729-027-46	TRANSISTOR DTC114YKA-T146		Q580	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q526	8-729-027-46	TRANSISTOR DTC114YKA-T146		Q581	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q527	8-729-027-46	TRANSISTOR DTC114YKA-T146		Q582	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q528	8-729-027-46	TRANSISTOR DTC114YKA-T146		Q583	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q529	8-729-027-46	TRANSISTOR DTC114YKA-T146		Q584	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q530	8-729-027-46	TRANSISTOR DTC114YKA-T146		Q585	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q531	8-729-120-28	TRANSISTOR 2SC1623-L5L6		Q586	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q532	8-729-120-28	TRANSISTOR 2SC1623-L5L6		Q587	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q533	8-729-120-28	TRANSISTOR 2SC1623-L5L6		Q588	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q534	8-729-120-28	TRANSISTOR 2SC1623-L5L6		Q589	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
				Q590	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
Q591	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		Q735	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q592	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		Q736	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q593	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		Q737	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q594	8-729-120-28	TRANSISTOR 2SC1623-L5L6		Q738	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q595	8-729-120-28	TRANSISTOR 2SC1623-L5L6					
Q596	8-729-120-28	TRANSISTOR 2SC1623-L5L6		Q739	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q597	8-729-120-28	TRANSISTOR 2SC1623-L5L6		Q740	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q598	8-729-120-28	TRANSISTOR 2SC1623-L5L6		Q741	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q599	8-729-120-28	TRANSISTOR 2SC1623-L5L6		Q742	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q600	8-729-027-46	TRANSISTOR DTC114YKA-T146		Q743	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q601	8-729-027-46	TRANSISTOR DTC114YKA-T146		Q744	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q602	8-729-027-46	TRANSISTOR DTC114YKA-T146		Q745	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q603	8-729-027-46	TRANSISTOR DTC114YKA-T146		Q746	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q604	8-729-027-46	TRANSISTOR DTC114YKA-T146		Q747	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q605	8-729-027-46	TRANSISTOR DTC114YKA-T146		Q748	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q606	8-729-120-28	TRANSISTOR 2SC1623-L5L6		Q749	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q607	8-729-120-28	TRANSISTOR 2SC1623-L5L6		Q750	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q608	8-729-120-28	TRANSISTOR 2SC1623-L5L6		Q751	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q609	8-729-120-28	TRANSISTOR 2SC1623-L5L6		Q752	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q610	8-729-120-28	TRANSISTOR 2SC1623-L5L6		Q753	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q611	8-729-120-28	TRANSISTOR 2SC1623-L5L6		Q754	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q612	8-729-120-28	TRANSISTOR 2SC1623-L5L6		Q755	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q613	8-729-120-28	TRANSISTOR 2SC1623-L5L6		Q759	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q614	8-729-120-28	TRANSISTOR 2SC1623-L5L6		Q760	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q615	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		Q761	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q616	1-801-806-11	TRANSISTOR DTC144EKA-T146		Q763	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q701	8-729-120-28	TRANSISTOR 2SC1623-L5L6		Q764	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q703	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		Q765	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q704	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		Q766	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q705	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		Q767	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q706	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		Q768	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q710	8-729-027-46	TRANSISTOR DTC114YKA-T146		Q769	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q711	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		Q770	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q712	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		Q771	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q713	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		Q772	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q714	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		Q773	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q715	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		Q774	1-801-806-11	TRANSISTOR DTC144EKA-T146	
Q716	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		Q775	1-801-806-11	TRANSISTOR DTC144EKA-T146	
Q717	8-729-027-46	TRANSISTOR DTC114YKA-T146		Q776	1-801-806-11	TRANSISTOR DTC144EKA-T146	
Q718	8-729-027-46	TRANSISTOR DTC114YKA-T146		Q777	1-801-806-11	TRANSISTOR DTC144EKA-T146	
Q719	8-729-027-46	TRANSISTOR DTC114YKA-T146		Q778	1-801-806-11	TRANSISTOR DTC144EKA-T146	
Q720	8-729-027-46	TRANSISTOR DTC114YKA-T146		Q1001	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q721	8-729-027-46	TRANSISTOR DTC114YKA-T146		Q1002	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q722	8-729-027-46	TRANSISTOR DTC114YKA-T146		Q1003	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q723	8-729-120-28	TRANSISTOR 2SC1623-L5L6		Q1004	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q724	8-729-120-28	TRANSISTOR 2SC1623-L5L6		Q1005	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q725	8-729-120-28	TRANSISTOR 2SC1623-L5L6		Q1006	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q726	8-729-120-28	TRANSISTOR 2SC1623-L5L6		Q1007	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q727	8-729-120-28	TRANSISTOR 2SC1623-L5L6		Q1008	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q728	8-729-120-28	TRANSISTOR 2SC1623-L5L6		Q1009	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q729	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		Q1010	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q730	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		Q1011	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q731	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		Q1012	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q732	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		Q1013	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q733	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		Q1014	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q734	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		Q1015	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
				Q1016	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	





REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
Q1017	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R106	1-216-013-00	RES,CHIP 33	5% 1/10W
Q1018	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R108	1-216-013-00	RES,CHIP 33	5% 1/10W
Q1019	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R109	1-216-013-00	RES,CHIP 33	5% 1/10W
Q1020	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R112	1-216-009-00	RES,CHIP 22	5% 1/10W
Q1301	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R113	1-216-013-00	RES,CHIP 33	5% 1/10W
Q1302	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R114	1-216-013-00	RES,CHIP 33	5% 1/10W
Q1303	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R115	1-216-013-00	RES,CHIP 33	5% 1/10W
Q1304	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R116	1-216-013-00	RES,CHIP 33	5% 1/10W
Q1305	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R117	1-216-013-00	RES,CHIP 33	5% 1/10W
Q1306	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R118	1-216-013-00	RES,CHIP 33	5% 1/10W
Q1307	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R119	1-216-013-00	RES,CHIP 33	5% 1/10W
Q1308	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R120	1-216-013-00	RES,CHIP 33	5% 1/10W
Q1309	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R121	1-216-013-00	RES,CHIP 33	5% 1/10W
Q1310	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R122	1-216-013-00	RES,CHIP 33	5% 1/10W
Q1311	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R123	1-216-009-00	RES,CHIP 22	5% 1/10W
Q1312	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		R124	1-216-009-00	RES,CHIP 22	5% 1/10W
Q1313	1-801-806-11	TRANSISTOR DTC144EKA-T146		R125	1-216-009-00	RES,CHIP 22	5% 1/10W
Q1314	1-801-806-11	TRANSISTOR DTC144EKA-T146		R126	1-216-009-00	RES,CHIP 22	5% 1/10W
Q1315	1-801-806-11	TRANSISTOR DTC144EKA-T146		R127	1-216-009-00	RES,CHIP 22	5% 1/10W
Q1316	1-801-806-11	TRANSISTOR DTC144EKA-T146		R128	1-216-009-00	RES,CHIP 22	5% 1/10W
Q1318	1-801-806-11	TRANSISTOR DTC144EKA-T146		R129	1-216-009-00	RES,CHIP 22	5% 1/10W
Q1319	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R130	1-216-009-00	RES,CHIP 22	5% 1/10W
Q1320	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R132	1-216-013-00	RES,CHIP 33	5% 1/10W
Q1321	1-801-806-11	TRANSISTOR DTC144EKA-T146		R133	1-216-013-00	RES,CHIP 33	5% 1/10W
Q1322	1-801-806-11	TRANSISTOR DTC144EKA-T146		R135	1-216-009-00	RES,CHIP 22	5% 1/10W
Q1501	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R136	1-216-009-00	RES,CHIP 22	5% 1/10W
Q1502	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		R137	1-216-009-00	RES,CHIP 22	5% 1/10W
Q1503	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R138	1-216-009-00	RES,CHIP 22	5% 1/10W
Q1504	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R139	1-216-009-00	RES,CHIP 22	5% 1/10W
Q1505	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R141	1-216-013-00	RES,CHIP 33	5% 1/10W
Q1506	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		R142	1-216-009-00	RES,CHIP 22	5% 1/10W
<RESISTOR>				R143	1-216-009-00	RES,CHIP 22	5% 1/10W
R8	1-216-073-00	RES,CHIP 10K	5% 1/10W	R144	1-216-009-00	RES,CHIP 22	5% 1/10W
R9	1-216-073-00	RES,CHIP 10K	5% 1/10W	R145	1-216-009-00	RES,CHIP 22	5% 1/10W
R10	1-216-073-00	RES,CHIP 10K	5% 1/10W	R146	1-216-009-00	RES,CHIP 22	5% 1/10W
R13	1-216-073-00	RES,CHIP 10K	5% 1/10W	R148	1-216-013-00	RES,CHIP 33	5% 1/10W
R20	1-216-049-91	RES,CHIP 1K	5% 1/10W	R149	1-216-009-00	RES,CHIP 22	5% 1/10W
R26	1-216-073-00	RES,CHIP 10K	5% 1/10W	R150	1-216-009-00	RES,CHIP 22	5% 1/10W
R41	1-216-065-91	RES,CHIP 4.7K	5% 1/10W	R151	1-216-009-00	RES,CHIP 22	5% 1/10W
R42	1-216-041-00	RES,CHIP 470	5% 1/10W	R153	1-216-017-91	RES,CHIP 47	5% 1/10W
R43	1-216-073-00	RES,CHIP 10K	5% 1/10W	R154	1-216-049-91	RES,CHIP 1K	5% 1/10W
R62	1-216-025-91	RES,CHIP 100	5% 1/10W	R156	1-216-013-00	RES,CHIP 33	5% 1/10W
R68	1-216-025-91	RES,CHIP 100	5% 1/10W	R160	1-216-013-00	RES,CHIP 33	5% 1/10W
R79	1-216-073-00	RES,CHIP 10K	5% 1/10W	R161	1-216-013-00	RES,CHIP 33	5% 1/10W
R84	1-216-659-11	METAL CHIP 2.2K	0.50% 1/10W	R162	1-216-013-00	RES,CHIP 33	5% 1/10W
R89	1-216-013-00	RES,CHIP 33	5% 1/10W	R163	1-216-013-00	RES,CHIP 33	5% 1/10W
R98	1-216-073-00	RES,CHIP 10K	5% 1/10W	R164	1-216-013-00	RES,CHIP 33	5% 1/10W
R99	1-216-025-91	RES,CHIP 100	5% 1/10W	R165	1-216-013-00	RES,CHIP 33	5% 1/10W
R100	1-216-025-91	RES,CHIP 100	5% 1/10W	R166	1-216-009-00	RES,CHIP 22	5% 1/10W
R101	1-216-013-00	RES,CHIP 33	5% 1/10W	R167	1-216-009-00	RES,CHIP 22	5% 1/10W
R102	1-216-013-00	RES,CHIP 33	5% 1/10W	R168	1-216-009-00	RES,CHIP 22	5% 1/10W
R103	1-216-013-00	RES,CHIP 33	5% 1/10W	R169	1-216-009-00	RES,CHIP 22	5% 1/10W
R104	1-216-013-00	RES,CHIP 33	5% 1/10W	R170	1-216-013-00	RES,CHIP 33	5% 1/10W
R105	1-216-013-00	RES,CHIP 33	5% 1/10W	R171	1-216-013-00	RES,CHIP 33	5% 1/10W
				R173	1-216-073-00	RES,CHIP 10K	5% 1/10W
				R177	1-216-073-00	RES,CHIP 10K	5% 1/10W



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R178	1-216-073-00	RES,CHIP	10K 5% 1/10W	R250	1-216-667-11	METAL CHIP	4.7K 0.50%1/10W
R179	1-216-073-00	RES,CHIP	10K 5% 1/10W	R251	1-216-675-11	METAL CHIP	10K 0.50%1/10W
R180	1-216-073-00	RES,CHIP	10K 5% 1/10W	R252	1-216-667-11	METAL CHIP	4.7K 0.50%1/10W
R181	1-216-073-00	RES,CHIP	10K 5% 1/10W	R253	1-216-037-00	RES,CHIP	330 5% 1/10W
R182	1-216-073-00	RES,CHIP	10K 5% 1/10W	R254	1-216-295-91	SHORT	0
R183	1-216-073-00	RES,CHIP	10K 5% 1/10W	R255	1-216-295-91	SHORT	0
R184	1-216-025-91	RES,CHIP	100 5% 1/10W	R256	1-216-073-00	RES,CHIP	10K 5% 1/10W
R185	1-216-025-91	RES,CHIP	100 5% 1/10W	R257	1-216-660-11	METAL CHIP	2.4K 0.50%1/10W
R186	1-216-025-91	RES,CHIP	100 5% 1/10W	R258	1-216-083-00	RES,CHIP	27K 5% 1/10W
R187	1-216-025-91	RES,CHIP	100 5% 1/10W	R259	1-216-089-91	RES,CHIP	47K 5% 1/10W
R188	1-216-025-91	RES,CHIP	100 5% 1/10W	R260	1-216-089-91	RES,CHIP	47K 5% 1/10W
R189	1-216-025-91	RES,CHIP	100 5% 1/10W	R261	1-216-089-91	RES,CHIP	47K 5% 1/10W
R199	1-216-073-00	RES,CHIP	10K 5% 1/10W	R262	1-216-089-91	RES,CHIP	47K 5% 1/10W
R200	1-216-013-00	RES,CHIP	33 5% 1/10W	R263	1-216-077-00	RES,CHIP	15K 5% 1/10W
R201	1-216-295-91	SHORT	0	R264	1-216-077-00	RES,CHIP	15K 5% 1/10W
R202	1-216-295-91	SHORT	0	R265	1-216-639-11	METAL CHIP	330 0.50%1/10W
R203	1-216-685-11	METAL CHIP	27K 0.50%1/10W	R266	1-216-295-91	SHORT	0
R204	1-216-627-11	METAL CHIP	100 0.50%1/10W	R267	1-216-073-00	RES,CHIP	10K 5% 1/10W
R205	1-216-677-11	METAL CHIP	12K 0.50%1/10W	R268	1-216-089-91	RES,CHIP	47K 5% 1/10W
R208	1-216-699-11	METAL CHIP	100K 0.50%1/10W	R269	1-216-077-00	RES,CHIP	15K 5% 1/10W
R209	1-216-025-91	RES,CHIP	100 5% 1/10W	R270	1-216-073-00	RES,CHIP	10K 5% 1/10W
R210	1-218-756-11	METAL CHIP	150K 0.50%1/10W	R271	1-216-073-00	RES,CHIP	10K 5% 1/10W
R211	1-216-645-11	METAL CHIP	560 0.50%1/10W	R272	1-216-073-00	RES,CHIP	10K 5% 1/10W
R212	1-216-663-11	METAL CHIP	3.3K 0.50%1/10W	R273	1-216-073-00	RES,CHIP	10K 5% 1/10W
R215	1-216-651-11	METAL CHIP	1K 0.50%1/10W	R274	1-216-073-00	RES,CHIP	10K 5% 1/10W
R216	1-216-065-91	"RES,CHIP"	4.7K 5% 1/10W	R275	1-216-073-00	RES,CHIP	10K 5% 1/10W
R217	1-216-689-11	METAL CHIP	39K 0.50%1/10W	R276	1-216-073-00	RES,CHIP	10K 5% 1/10W
R218	1-216-679-11	METAL CHIP	15K 0.50%1/10W	R277	1-216-073-00	RES,CHIP	10K 5% 1/10W
R219	1-216-073-00	RES,CHIP	10K 5% 1/10W	R278	1-216-073-00	RES,CHIP	10K 5% 1/10W
R220	1-216-073-00	RES,CHIP	10K 5% 1/10W	R279	1-216-073-00	RES,CHIP	10K 5% 1/10W
R221	1-216-692-11	METAL CHIP	51K 0.50%1/10W	R280	1-216-073-00	RES,CHIP	10K 5% 1/10W
R222	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R281	1-216-073-00	RES,CHIP	10K 5% 1/10W
R223	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R282	1-216-073-00	RES,CHIP	10K 5% 1/10W
R224	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R283	1-216-073-00	RES,CHIP	10K 5% 1/10W
R225	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R284	1-216-073-00	RES,CHIP	10K 5% 1/10W
R226	1-216-681-11	METAL CHIP	18K 0.50%1/10W	R285	1-216-073-00	RES,CHIP	10K 5% 1/10W
R227	1-216-686-11	METAL CHIP	30K 0.50%1/10W	R286	1-216-073-00	RES,CHIP	10K 5% 1/10W
R228	1-216-031-00	RES,CHIP	180 5% 1/10W	R287	1-216-073-00	RES,CHIP	10K 5% 1/10W
R230	1-216-685-11	METAL CHIP	27K 0.50%1/10W	R288	1-216-073-00	RES,CHIP	10K 5% 1/10W
R231	1-216-683-11	METAL CHIP	22K 0.50%1/10W	R289	1-216-073-00	RES,CHIP	10K 5% 1/10W
R232	1-216-089-91	RES,CHIP	47K 5% 1/10W	R290	1-216-073-00	RES,CHIP	10K 5% 1/10W
R235	1-216-089-91	RES,CHIP	47K 5% 1/10W	R291	1-216-073-00	RES,CHIP	10K 5% 1/10W
R236	1-216-055-00	RES,CHIP	1.8K 5% 1/10W	R292	1-216-073-00	RES,CHIP	10K 5% 1/10W
R237	1-216-061-00	RES,CHIP	3.3K 5% 1/10W	R293	1-216-073-00	RES,CHIP	10K 5% 1/10W
R238	1-216-075-00	RES,CHIP	12K 5% 1/10W	R294	1-216-073-00	RES,CHIP	10K 5% 1/10W
R239	1-216-025-91	RES,CHIP	100 5% 1/10W	R295	1-216-073-00	RES,CHIP	10K 5% 1/10W
R240	1-216-295-91	SHORT	0	R296	1-216-073-00	RES,CHIP	10K 5% 1/10W
R241	1-216-295-91	SHORT	0	R297	1-216-073-00	RES,CHIP	10K 5% 1/10W
R242	1-216-295-91	SHORT	0	R298	1-216-073-00	RES,CHIP	10K 5% 1/10W
R243	1-216-660-11	METAL CHIP	2.4K 0.50%1/10W	R299	1-216-073-00	RES,CHIP	10K 5% 1/10W
R244	1-216-660-11	METAL CHIP	2.4K 0.50%1/10W	R300	1-216-073-00	RES,CHIP	10K 5% 1/10W
R245	1-216-037-00	RES,CHIP	330 5% 1/10W	R301	1-216-073-00	RES,CHIP	10K 5% 1/10W
R246	1-216-295-91	SHORT	0	R309	1-216-025-91	RES,CHIP	100 5% 1/10W
R247	1-216-675-11	METAL CHIP	10K 0.50%1/10W	R310	1-216-025-91	RES,CHIP	100 5% 1/10W
R248	1-216-667-11	METAL CHIP	4.7K 0.50%1/10W	R311	1-216-025-91	RES,CHIP	100 5% 1/10W
R249	1-216-675-11	METAL CHIP	10K 0.50%1/10W	R312	1-216-105-91	RES,CHIP	220K 5% 1/10W



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R313	1-216-097-91	RES,CHIP	100K 5% 1/10W	R408	1-216-681-11	METAL CHIP	18K 0.50%1/10W
R314	1-216-049-91	RES,CHIP	1K 5% 1/10W	R409	1-216-683-11	METAL CHIP	22K 0.50%1/10W
R315	1-216-049-91	RES,CHIP	1K 5% 1/10W	R411	1-216-645-11	METAL CHIP	560 0.50%1/10W
R316	1-216-049-91	RES,CHIP	1K 5% 1/10W	R412	1-216-645-11	METAL CHIP	560 0.50%1/10W
R317	1-216-033-00	RES,CHIP	220 5% 1/10W	R413	1-216-645-11	METAL CHIP	560 0.50%1/10W
R318	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R414	1-216-651-11	METAL CHIP	1K 0.50%1/10W
R319	1-216-049-91	RES,CHIP	1K 5% 1/10W	R415	1-216-651-11	METAL CHIP	1K 0.50%1/10W
R326	1-216-089-91	RES,CHIP	47K 5% 1/10W	R416	1-216-652-11	METAL CHIP	1.1K 0.50%1/10W
R327	1-216-105-91	RES,CHIP	220K 5% 1/10W	R417	1-216-652-11	METAL CHIP	1.1K 0.50%1/10W
R335	1-216-097-91	RES,CHIP	100K 5% 1/10W	R436	1-216-651-11	METAL CHIP	1K 0.50%1/10W
R336	1-216-099-00	RES,CHIP	120K 5% 1/10W	R437	1-216-651-11	METAL CHIP	1K 0.50%1/10W
R341	1-216-624-11	METAL CHIP	75 0.50%1/10W	R438	1-216-651-11	METAL CHIP	1K 0.50%1/10W
R342	1-216-624-11	METAL CHIP	75 0.50%1/10W	R440	1-216-073-00	RES,CHIP	10K 5% 1/10W
R346	1-216-687-11	METAL CHIP	33K 0.50%1/10W	R441	1-216-073-00	RES,CHIP	10K 5% 1/10W
R347	1-216-681-11	METAL CHIP	18K 0.50%1/10W	R442	1-216-073-00	RES,CHIP	10K 5% 1/10W
R348	1-216-295-91	SHORT	0	R443	1-216-073-00	RES,CHIP	10K 5% 1/10W
R350	1-216-675-11	METAL CHIP	10K 0.50%1/10W	R444	1-216-073-00	RES,CHIP	10K 5% 1/10W
R352	1-216-295-91	SHORT	0	R445	1-216-073-00	RES,CHIP	10K 5% 1/10W
R353	1-216-675-11	METAL CHIP	10K 0.50%1/10W	R446	1-216-073-00	RES,CHIP	10K 5% 1/10W
R354	1-216-295-91	SHORT	0	R447	1-216-073-00	RES,CHIP	10K 5% 1/10W
R355	1-216-295-91	SHORT	0	R448	1-216-073-00	RES,CHIP	10K 5% 1/10W
R361	1-216-687-11	METAL CHIP	33K 0.50%1/10W	R449	1-216-073-00	RES,CHIP	10K 5% 1/10W
R362	1-216-681-11	METAL CHIP	18K 0.50%1/10W	R450	1-216-073-00	RES,CHIP	10K 5% 1/10W
R363	1-216-681-11	METAL CHIP	18K 0.50%1/10W	R451	1-216-073-00	RES,CHIP	10K 5% 1/10W
R364	1-216-687-11	METAL CHIP	33K 0.50%1/10W	R452	1-216-073-00	RES,CHIP	10K 5% 1/10W
R365	1-216-033-00	RES,CHIP	220 5% 1/10W	R453	1-216-073-00	RES,CHIP	10K 5% 1/10W
R366	1-216-295-91	SHORT	0	R454	1-216-073-00	RES,CHIP	10K 5% 1/10W
R367	1-216-295-91	SHORT	0	R455	1-216-073-00	RES,CHIP	10K 5% 1/10W
R368	1-216-295-91	SHORT	0	R456	1-216-073-00	RES,CHIP	10K 5% 1/10W
R369	1-216-651-11	METAL CHIP	1K 0.50%1/10W	R457	1-216-073-00	RES,CHIP	10K 5% 1/10W
R370	1-216-651-11	METAL CHIP	1K 0.50%1/10W	R458	1-216-073-00	RES,CHIP	10K 5% 1/10W
R371	1-216-651-11	METAL CHIP	1K 0.50%1/10W	R459	1-216-073-00	RES,CHIP	10K 5% 1/10W
R372	1-216-659-11	METAL CHIP	2.2K 0.50%1/10W	R460	1-216-073-00	RES,CHIP	10K 5% 1/10W
R373	1-216-690-11	METAL CHIP	43K 0.50%1/10W	R461	1-216-073-00	RES,CHIP	10K 5% 1/10W
R375	1-216-639-11	METAL CHIP	330 0.50%1/10W	R462	1-216-073-00	RES,CHIP	10K 5% 1/10W
R376	1-218-756-11	METAL CHIP	150K 0.50%1/10W	R463	1-216-073-00	RES,CHIP	10K 5% 1/10W
R378	1-216-661-11	METAL CHIP	2.7K 0.50%1/10W	R464	1-216-073-00	RES,CHIP	10K 5% 1/10W
R379	1-216-667-11	METAL CHIP	4.7K 0.50%1/10W	R465	1-216-073-00	RES,CHIP	10K 5% 1/10W
R380	1-216-643-11	METAL CHIP	470 0.50%1/10W	R466	1-216-073-00	RES,CHIP	10K 5% 1/10W
R383	1-218-772-11	METAL CHIP	680K 0.50%1/10W	R467	1-216-073-00	RES,CHIP	10K 5% 1/10W
R384	1-216-679-11	METAL CHIP	15K 0.50%1/10W	R468	1-216-073-00	RES,CHIP	10K 5% 1/10W
R385	1-216-646-11	METAL CHIP	620 0.50%1/10W	R469	1-216-073-00	RES,CHIP	10K 5% 1/10W
R387	1-216-121-91	"RES,CHIP"	1M 5% 1/10W	R470	1-216-073-00	RES,CHIP	10K 5% 1/10W
R388	1-216-121-91	"RES,CHIP"	1M 5% 1/10W	R471	1-216-073-00	RES,CHIP	10K 5% 1/10W
R389	1-216-121-91	"RES,CHIP"	1M 5% 1/10W	R501	1-216-675-11	METAL CHIP	10K 0.50%1/10W
R392	1-216-657-11	METAL CHIP	1.8K 0.50%1/10W	R502	1-216-675-11	METAL CHIP	10K 0.50%1/10W
R393	1-218-775-11	METAL CHIP	910K 0.50%1/10W	R503	1-216-675-11	METAL CHIP	10K 0.50%1/10W
R394	1-216-687-11	METAL CHIP	33K 0.50%1/10W	R504	1-216-675-11	METAL CHIP	10K 0.50%1/10W
R395	1-216-295-91	SHORT	0	R505	1-216-675-11	METAL CHIP	10K 0.50%1/10W
R396	1-216-651-11	METAL CHIP	1K 0.50%1/10W	R506	1-216-675-11	METAL CHIP	10K 0.50%1/10W
R399	1-216-651-11	METAL CHIP	1K 0.50%1/10W	R507	1-216-639-11	METAL CHIP	330 0.50%1/10W
R400	1-216-651-11	METAL CHIP	1K 0.50%1/10W	R508	1-216-639-11	METAL CHIP	330 0.50%1/10W
R404	1-216-681-11	METAL CHIP	18K 0.50%1/10W	R509	1-216-639-11	METAL CHIP	330 0.50%1/10W
R405	1-216-683-11	METAL CHIP	22K 0.50%1/10W	R510	1-216-639-11	METAL CHIP	330 0.50%1/10W
R406	1-216-681-11	METAL CHIP	18K 0.50%1/10W	R511	1-216-639-11	METAL CHIP	330 0.50%1/10W
R407	1-216-683-11	METAL CHIP	22K 0.50%1/10W	R512	1-216-639-11	METAL CHIP	330 0.50%1/10W







REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R632	1-216-657-11	METAL CHIP	1.8K	0.50%1/10W	R717	1-216-089-91 RES,CHIP	47K 5% 1/10W
R633	1-216-658-11	METAL CHIP	2K	0.50%1/10W	R718	1-216-689-11 RES,CHIP	39K 5% 1/10W
R634	1-216-659-11	METAL CHIP	2.2K	0.50%1/10W	R725	1-216-073-00 RES,CHIP	10K 5% 1/10W
R635	1-216-659-11	METAL CHIP	2.2K	0.50%1/10W	R726	1-216-073-00 RES,CHIP	10K 5% 1/10W
R636	1-216-659-11	METAL CHIP	2.2K	0.50%1/10W	R727	1-216-077-00 RES,CHIP	15K 5% 1/10W
R637	1-216-659-11	METAL CHIP	2.2K	0.50%1/10W	R728	1-216-073-00 RES,CHIP	10K 5% 1/10W
R638	1-216-639-11	METAL CHIP	330	0.50%1/10W	R729	1-216-077-00 RES,CHIP	15K 5% 1/10W
R639	1-216-639-11	METAL CHIP	330	0.50%1/10W	R730	1-216-077-00 RES,CHIP	15K 5% 1/10W
R640	1-216-639-11	METAL CHIP	330	0.50%1/10W	R731	1-216-077-00 RES,CHIP	15K 5% 1/10W
R641	1-216-639-11	METAL CHIP	330	0.50%1/10W	R732	1-216-073-00 RES,CHIP	10K 5% 1/10W
R642	1-216-639-11	METAL CHIP	330	0.50%1/10W	R733	1-216-089-91 RES,CHIP	47K 5% 1/10W
R643	1-216-639-11	METAL CHIP	330	0.50%1/10W	R734	1-216-089-91 RES,CHIP	47K 5% 1/10W
R645	1-216-641-11	METAL CHIP	390	0.50%1/10W	R735	1-216-089-91 RES,CHIP	47K 5% 1/10W
R646	1-216-641-11	METAL CHIP	390	0.50%1/10W	R736	1-216-295-91 SHORT	0
R647	1-216-641-11	METAL CHIP	390	0.50%1/10W	R737	1-216-295-91 SHORT	0
R648	1-216-641-11	METAL CHIP	390	0.50%1/10W	R738	1-216-295-91 SHORT	0
R649	1-216-641-11	METAL CHIP	390	0.50%1/10W	R739	1-216-063-91 RES,CHIP	3.9K 5% 1/10W
R650	1-216-641-11	METAL CHIP	390	0.50%1/10W	R740	1-216-121-91 RES,CHIP	1M 5% 1/10W
R651	1-216-675-11	METAL CHIP	10K	0.50%1/10W	R741	1-216-073-00 RES,CHIP	10K 5% 1/10W
R652	1-216-667-11	METAL CHIP	4.7K	0.50%1/10W	R742	1-216-073-00 RES,CHIP	10K 5% 1/10W
R653	1-216-675-11	METAL CHIP	10K	0.50%1/10W	R743	1-216-667-11 METAL CHIP	4.7K 0.50%1/10W
R654	1-216-667-11	METAL CHIP	4.7K	0.50%1/10W	R745	1-216-635-11 METAL CHIP	220 0.50%1/10W
R655	1-216-675-11	METAL CHIP	10K	0.50%1/10W	R749	1-216-121-91 RES,CHIP	1M 5% 1/10W
R656	1-216-667-11	METAL CHIP	4.7K	0.50%1/10W	R750	1-216-073-00 RES,CHIP	10K 5% 1/10W
R657	1-216-675-11	METAL CHIP	10K	0.50%1/10W	R751	1-216-073-00 RES,CHIP	10K 5% 1/10W
R658	1-216-667-11	METAL CHIP	4.7K	0.50%1/10W	R752	1-216-065-91 RES,CHIP	4.7K 5% 1/10W
R659	1-216-675-11	METAL CHIP	10K	0.50%1/10W	R753	1-216-647-11 METAL CHIP	680 0.50%1/10W
R660	1-216-667-11	METAL CHIP	4.7K	0.50%1/10W	R754	1-216-641-11 METAL CHIP	390 0.50%1/10W
R661	1-216-675-11	METAL CHIP	10K	0.50%1/10W	R755	1-216-640-11 METAL CHIP	360 0.50%1/10W
R662	1-216-667-11	METAL CHIP	4.7K	0.50%1/10W	R756	1-216-665-11 METAL CHIP	3.9K 0.50%1/10W
R663	1-216-675-11	METAL CHIP	10K	0.50%1/10W	R757	1-216-624-11 METAL CHIP	75 0.50%1/10W
R664	1-216-675-11	METAL CHIP	10K	0.50%1/10W	R758	1-216-049-91 RES,CHIP	1K 5% 1/10W
R665	1-216-675-11	METAL CHIP	10K	0.50%1/10W	R759	1-216-049-91 RES,CHIP	1K 5% 1/10W
R666	1-216-675-11	METAL CHIP	10K	0.50%1/10W	R765	1-216-121-91 RES,CHIP	1M 5% 1/10W
R667	1-216-675-11	METAL CHIP	10K	0.50%1/10W	R766	1-216-295-91 SHORT	0
R668	1-216-675-11	METAL CHIP	10K	0.50%1/10W	R767	1-216-295-91 SHORT	0
R669	1-216-639-11	METAL CHIP	330	0.50%1/10W	R770	1-216-624-11 METAL CHIP	75 0.50%1/10W
R694	1-216-659-11	METAL CHIP	2.2K	0.50%1/10W	R783	1-216-089-91 RES,CHIP	47K 5% 1/10W
R695	1-216-661-11	METAL CHIP	2.7K	0.50%1/10W	R784	1-216-295-91 SHORT	0
R696	1-216-659-11	METAL CHIP	2.2K	0.50%1/10W	R785	1-216-089-91 RES,CHIP	47K 5% 1/10W
R697	1-216-661-11	METAL CHIP	2.7K	0.50%1/10W	R786	1-216-089-91 RES,CHIP	47K 5% 1/10W
R698	1-216-659-11	METAL CHIP	2.2K	0.50%1/10W	R787	1-216-295-91 SHORT	0
R699	1-216-661-11	METAL CHIP	2.7K	0.50%1/10W	R788	1-216-121-91 RES,CHIP	1M 5% 1/10W
R701	1-216-295-91 SHORT	0			R789	1-216-624-11 METAL CHIP	75 0.50%1/10W
R702	1-216-295-91 SHORT	0			R791	1-216-073-00 RES,CHIP	10K 5% 1/10W
R703	1-216-035-00 RES,CHIP	270	5%	1/10W	R792	1-216-627-11 METAL CHIP	100 0.50%1/10W
R704	1-216-043-91 RES,CHIP	560	5%	1/10W	R793	1-216-627-11 METAL CHIP	100 0.50%1/10W
R705	1-216-025-91 RES,CHIP	100	5%	1/10W	R794	1-216-627-11 METAL CHIP	100 0.50%1/10W
R709	1-216-295-91 SHORT	0			R795	1-216-641-11 METAL CHIP	390 0.50%1/10W
R710	1-216-295-91 SHORT	0			R796	1-216-641-11 METAL CHIP	390 0.50%1/10W
R711	1-216-295-91 SHORT	0			R797	1-216-641-11 METAL CHIP	390 0.50%1/10W
R712	1-216-049-91 RES,CHIP	1K	5%	1/10W	R798	1-216-668-11 METAL CHIP	5.1K 0.50%1/10W
R713	1-216-073-00 RES,CHIP	10K	5%	1/10W	R799	1-216-668-11 METAL CHIP	5.1K 0.50%1/10W
R714	1-216-049-91 RES,CHIP	1K	5%	1/10W	R800	1-216-668-11 METAL CHIP	5.1K 0.50%1/10W
R715	1-216-093-00 RES,CHIP	68K	5%	1/10W	R801	1-216-663-11 METAL CHIP	3.3K 0.50%1/10W
R716	1-216-049-91 RES,CHIP	1K	5%	1/10W	R802	1-216-663-11 METAL CHIP	3.3K 0.50%1/10W



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R803	1-216-663-11	METAL CHIP 3.3K	0.50%1/10W	R863	1-216-017-91	RES,CHIP 47	5% 1/10W
R804	1-216-663-11	METAL CHIP 3.3K	0.50%1/10W	R864	1-216-089-91	RES,CHIP 47K	5% 1/10W
R805	1-216-663-11	METAL CHIP 3.3K	0.50%1/10W	R865	1-216-081-00	RES,CHIP 22K	5% 1/10W
R806	1-216-663-11	METAL CHIP 3.3K	0.50%1/10W				
R807	1-216-065-91	RES,CHIP 4.7K	5% 1/10W	R866	1-216-065-91	RES,CHIP 4.7K	5% 1/10W
R808	1-216-651-11	METAL CHIP 1K	0.50%1/10W	R867	1-216-089-91	RES,CHIP 47K	5% 1/10W
R809	1-216-651-11	METAL CHIP 1K	0.50%1/10W	R868	1-216-089-91	RES,CHIP 47K	5% 1/10W
R810	1-216-651-11	METAL CHIP 1K	0.50%1/10W	R869	1-216-089-91	RES,CHIP 47K	5% 1/10W
R811	1-216-651-11	METAL CHIP 1K	0.50%1/10W	R870	1-216-065-91	RES,CHIP 4.7K	5% 1/10W
R812	1-216-651-11	METAL CHIP 1K	0.50%1/10W	R871	1-216-341-11	METAL OXIDE 0.22	5% 1W F
R813	1-216-651-11	METAL CHIP 1K	0.50%1/10W	R872	1-216-341-11	METAL OXIDE 0.22	5% 1W F
R814	1-216-639-11	METAL CHIP 330	0.50%1/10W	R873	1-216-049-91	RES,CHIP 1K	5% 1/10W
R815	1-216-639-11	METAL CHIP 330	0.50%1/10W	R874	1-216-049-91	RES,CHIP 1K	5% 1/10W
R816	1-216-639-11	METAL CHIP 330	0.50%1/10W	R875	1-216-049-91	RES,CHIP 1K	5% 1/10W
R817	1-216-639-11	METAL CHIP 330	0.50%1/10W	R883	1-216-643-11	METAL CHIP 470	0.50%1/10W
R818	1-216-639-11	METAL CHIP 330	0.50%1/10W	R884	1-216-651-11	METAL CHIP 1K	0.50%1/10W
R819	1-216-639-11	METAL CHIP 330	0.50%1/10W	R885	1-216-643-11	METAL CHIP 470	0.50%1/10W
R820	1-216-639-11	METAL CHIP 330	0.50%1/10W	R888	1-216-643-11	METAL CHIP 470	0.50%1/10W
R821	1-216-639-11	METAL CHIP 330	0.50%1/10W	R891	1-216-659-11	METAL CHIP 2.2K	0.50%1/10W
R822	1-216-639-11	METAL CHIP 330	0.50%1/10W	R893	1-216-651-11	METAL CHIP 1K	0.50%1/10W
R823	1-216-639-11	METAL CHIP 330	0.50%1/10W	R897	1-216-659-11	METAL CHIP 2.2K	0.50%1/10W
R824	1-216-639-11	METAL CHIP 330	0.50%1/10W	R899	1-216-121-91	RES,CHIP 1M	5% 1/10W
R825	1-216-639-11	METAL CHIP 330	0.50%1/10W	R909	1-216-691-11	METAL CHIP 47K	0.50%1/10W
R826	1-216-627-11	METAL CHIP 100	0.50%1/10W	R910	1-216-624-11	METAL CHIP 75	0.50%1/10W
R827	1-216-627-11	METAL CHIP 100	0.50%1/10W	R911	1-216-624-11	METAL CHIP 75	0.50%1/10W
R828	1-216-627-11	METAL CHIP 100	0.50%1/10W	R912	1-216-682-11	METAL CHIP 20K	0.50%1/10W
R829	1-216-627-11	METAL CHIP 100	0.50%1/10W	R913	1-216-624-11	METAL CHIP 75	0.50%1/10W
R830	1-216-627-11	METAL CHIP 100	0.50%1/10W	R914	1-216-121-91	RES,CHIP 1M	5% 1/10W
R831	1-216-627-11	METAL CHIP 100	0.50%1/10W	R915	1-216-121-91	RES,CHIP 1M	5% 1/10W
R832	1-216-641-11	METAL CHIP 390	0.50%1/10W	R916	1-216-121-91	RES,CHIP 1M	5% 1/10W
R833	1-216-641-11	METAL CHIP 390	0.50%1/10W	R919	1-216-624-11	METAL CHIP 75	0.50%1/10W
R834	1-216-641-11	METAL CHIP 390	0.50%1/10W	R920	1-216-073-00	RES,CHIP 10K	5% 1/10W
R835	1-216-641-11	METAL CHIP 390	0.50%1/10W	R922	1-216-624-11	METAL CHIP 75	0.50%1/10W
R836	1-216-641-11	METAL CHIP 390	0.50%1/10W	R923	1-216-624-11	METAL CHIP 75	0.50%1/10W
R837	1-216-641-11	METAL CHIP 390	0.50%1/10W	R927	1-216-651-11	METAL CHIP 1K	0.50%1/10W
R838	1-216-668-11	METAL CHIP 5.1K	0.50%1/10W	R931	1-216-121-91	RES,CHIP 1M	5% 1/10W
R839	1-216-668-11	METAL CHIP 5.1K	0.50%1/10W	R932	1-216-624-11	METAL CHIP 75	0.50%1/10W
R840	1-216-668-11	METAL CHIP 5.1K	0.50%1/10W	R933	1-216-619-11	METAL CHIP 47	0.50%1/10W
R841	1-216-668-11	METAL CHIP 5.1K	0.50%1/10W	R934	1-216-624-11	METAL CHIP 75	0.50%1/10W
R842	1-216-668-11	METAL CHIP 5.1K	0.50%1/10W	R935	1-216-624-11	METAL CHIP 75	0.50%1/10W
R843	1-216-668-11	METAL CHIP 5.1K	0.50%1/10W	R936	1-216-685-11	METAL CHIP 27K	0.50%1/10W
R844	1-216-665-11	METAL CHIP 3.9K	0.50%1/10W	R937	1-216-295-91	SHORT 0	
R845	1-216-665-11	METAL CHIP 3.9K	0.50%1/10W	R938	1-216-685-11	METAL CHIP 27K	0.50%1/10W
R846	1-216-665-11	METAL CHIP 3.9K	0.50%1/10W	R939	1-216-679-11	METAL CHIP 15K	0.50%1/10W
R847	1-216-665-11	METAL CHIP 3.9K	0.50%1/10W	R944	1-216-097-91	RES,CHIP 100K	5% 1/10W
R848	1-216-665-11	METAL CHIP 3.9K	0.50%1/10W	R945	1-216-097-91	RES,CHIP 100K	5% 1/10W
R849	1-216-665-11	METAL CHIP 3.9K	0.50%1/10W	R946	1-216-097-91	RES,CHIP 100K	5% 1/10W
R851	1-216-641-11	METAL CHIP 390	0.50%1/10W	R972	1-216-047-91	RES,CHIP 820	5% 1/10W
R853	1-216-641-11	METAL CHIP 390	0.50%1/10W	R973	1-216-047-91	RES,CHIP 820	5% 1/10W
R855	1-216-641-11	METAL CHIP 390	0.50%1/10W	R974	1-216-041-00	RES,CHIP 470	5% 1/10W
R857	1-216-089-91	RES,CHIP 47K	5% 1/10W	R975	1-216-295-91	SHORT 0	
R858	1-216-081-00	RES,CHIP 22K	5% 1/10W	R977	1-216-671-11	METAL CHIP 6.8K	0.50%1/10W
R859	1-216-065-91	RES,CHIP 4.7K	5% 1/10W	R978	1-216-671-11	METAL CHIP 6.8K	0.50%1/10W
R860	1-216-065-91	RES,CHIP 4.7K	5% 1/10W	R979	1-216-671-11	METAL CHIP 6.8K	0.50%1/10W
R861	1-216-017-91	RES,CHIP 47	5% 1/10W	R980	1-216-659-11	METAL CHIP 2.2K	0.50%1/10W
R862	1-216-017-91	RES,CHIP 47	5% 1/10W	R981	1-216-659-11	METAL CHIP 2.2K	0.50%1/10W
				R982	1-216-659-11	METAL CHIP 2.2K	0.50%1/10W





REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R986	1-216-027-00	RES,CHIP	120 5% 1/10W	R1051	1-216-075-00	RES,CHIP	12K 5% 1/10W
R987	1-216-027-00	RES,CHIP	120 5% 1/10W	R1052	1-216-059-00	RES,CHIP	2.7K 5% 1/10W
R988	1-216-027-00	RES,CHIP	120 5% 1/10W	R1053	1-216-043-91	RES,CHIP	560 5% 1/10W
R989	1-216-027-00	RES,CHIP	120 5% 1/10W	R1054	1-216-067-00	RES,CHIP	5.6K 5% 1/10W
R990	1-216-027-00	RES,CHIP	120 5% 1/10W	R1055	1-216-031-00	RES,CHIP	180 5% 1/10W
R991	1-216-027-00	RES,CHIP	120 5% 1/10W	R1056	1-216-039-00	RES,CHIP	390 5% 1/10W
R1001	1-216-077-00	RES,CHIP	15K 5% 1/10W	R1057	1-216-049-91	RES,CHIP	1K 5% 1/10W
R1002	1-216-079-00	RES,CHIP	18K 5% 1/10W	R1058	1-216-049-91	RES,CHIP	1K 5% 1/10W
R1003	1-216-001-00	RES,CHIP	10 5% 1/10W	R1059	1-216-049-91	RES,CHIP	1K 5% 1/10W
R1004	1-216-055-00	RES,CHIP	1.8K 5% 1/10W	R1060	1-216-073-00	RES,CHIP	10K 5% 1/10W
R1005	1-216-043-91	RES,CHIP	560 5% 1/10W	R1061	1-216-079-00	RES,CHIP	18K 5% 1/10W
R1006	1-216-001-00	RES,CHIP	10 5% 1/10W	R1062	1-216-025-91	RES,CHIP	100 5% 1/10W
R1007	1-216-067-00	RES,CHIP	5.6K 5% 1/10W	R1063	1-216-017-91	RES,CHIP	47 5% 1/10W
R1008	1-216-055-00	RES,CHIP	1.8K 5% 1/10W	R1064	1-216-061-00	RES,CHIP	3.3K 5% 1/10W
R1009	1-216-051-00	RES,CHIP	1.2K 5% 1/10W	R1065	1-216-077-00	RES,CHIP	15K 5% 1/10W
R1010	1-216-045-00	RES,CHIP	680 5% 1/10W	R1066	1-216-073-00	RES,CHIP	10K 5% 1/10W
R1011	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R1067	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
R1012	1-216-025-91	RES,CHIP	100 5% 1/10W	R1068	1-216-043-91	RES,CHIP	560 5% 1/10W
R1013	1-216-061-00	RES,CHIP	3.3K 5% 1/10W	R1069	1-216-067-00	RES,CHIP	5.6K 5% 1/10W
R1014	1-216-041-00	RES,CHIP	470 5% 1/10W	R1070	1-216-049-91	RES,CHIP	1K 5% 1/10W
R1015	1-216-077-00	RES,CHIP	15K 5% 1/10W	R1071	1-216-043-91	RES,CHIP	560 5% 1/10W
R1016	1-216-073-00	RES,CHIP	10K 5% 1/10W	R1072	1-216-049-91	RES,CHIP	1K 5% 1/10W
R1017	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R1073	1-216-049-91	RES,CHIP	1K 5% 1/10W
R1018	1-216-653-11	METAL CHIP	1.2K 0.50% 1/10W	R1074	1-216-073-00	RES,CHIP	10K 5% 1/10W
R1019	1-216-025-91	RES,CHIP	100 5% 1/10W	R1075	1-216-081-00	RES,CHIP	22K 5% 1/10W
R1020	1-216-029-00	RES,CHIP	150 5% 1/10W	R1076	1-216-025-91	RES,CHIP	100 5% 1/10W
R1021	1-216-049-91	RES,CHIP	1K 5% 1/10W	R1077	1-216-061-00	RES,CHIP	3.3K 5% 1/10W
R1022	1-216-073-00	RES,CHIP	10K 5% 1/10W	R1078	1-216-017-91	RES,CHIP	47 5% 1/10W
R1023	1-216-063-91	RES,CHIP	3.9K 5% 1/10W	R1079	1-216-653-11	METAL CHIP	1.2K 0.50% 1/10W
R1024	1-216-073-00	RES,CHIP	10K 5% 1/10W	R1080	1-216-295-91	SHORT	0
R1025	1-216-073-00	RES,CHIP	10K 5% 1/10W	R1081	1-216-049-91	RES,CHIP	1K 5% 1/10W
R1026	1-216-017-91	RES,CHIP	47 5% 1/10W	R1082	1-216-049-91	RES,CHIP	1K 5% 1/10W
R1027	1-216-081-00	RES,CHIP	22K 5% 1/10W	R1083	1-216-089-91	RES,CHIP	47K 5% 1/10W
R1028	1-216-023-00	RES,CHIP	82 5% 1/10W	R1084	1-216-033-00	RES,CHIP	220 5% 1/10W
R1029	1-216-023-00	RES,CHIP	82 5% 1/10W	R1085	1-216-089-91	RES,CHIP	47K 5% 1/10W
R1030	1-216-023-00	RES,CHIP	82 5% 1/10W	R1086	1-216-033-00	RES,CHIP	220 5% 1/10W
R1031	1-216-663-11	METAL CHIP	3.3K 0.50% 1/10W	R1087	1-216-073-00	RES,CHIP	10K 5% 1/10W
R1032	1-216-650-11	METAL CHIP	910 0.50% 1/10W	R1088	1-216-073-00	RES,CHIP	10K 5% 1/10W
R1033	1-216-031-00	RES,CHIP	180 5% 1/10W	R1089	1-216-133-00	RES,CHIP	3.3M 5% 1/10W
R1034	1-216-664-11	METAL CHIP	3.6K 0.50% 1/10W	R1090	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
R1035	1-216-663-11	METAL CHIP	3.3K 0.50% 1/10W	R1091	1-216-644-11	METAL CHIP	510 0.50% 1/10W
R1036	1-216-650-11	METAL CHIP	910 0.50% 1/10W	R1092	1-216-627-11	METAL CHIP	100 0.50% 1/10W
R1037	1-216-664-11	METAL CHIP	3.6K 0.50% 1/10W	R1093	1-216-023-00	RES,CHIP	82 5% 1/10W
R1038	1-216-025-91	RES,CHIP	100 5% 1/10W	R1094	1-216-029-00	RES,CHIP	150 5% 1/10W
R1039	1-216-675-11	METAL CHIP	10K 0.50% 1/10W	R1095	1-216-041-00	RES,CHIP	470 5% 1/10W
R1040	1-216-663-11	METAL CHIP	3.3K 0.50% 1/10W	R1096	1-216-019-00	RES,CHIP	56 5% 1/10W
R1041	1-216-295-91	SHORT	0	R1097	1-216-009-00	RES,CHIP	22 5% 1/10W
R1042	1-216-634-11	METAL CHIP	200 0.50% 1/10W	R1098	1-216-039-00	RES,CHIP	390 5% 1/10W
R1043	1-216-656-11	METAL CHIP	1.6K 0.50% 1/10W	R1099	1-216-097-91	RES,CHIP	100K 5% 1/10W
R1044	1-216-634-11	METAL CHIP	200 0.50% 1/10W	R1100	1-216-059-00	RES,CHIP	2.7K 5% 1/10W
R1045	1-216-025-91	RES,CHIP	100 5% 1/10W	R1101	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
R1046	1-216-295-91	SHORT	0	R1102	1-216-031-00	RES,CHIP	180 5% 1/10W
R1047	1-216-017-91	RES,CHIP	47 5% 1/10W	R1103	1-216-071-00	RES,CHIP	8.2K 5% 1/10W
R1048	1-216-664-11	METAL CHIP	3.6K 0.50% 1/10W	R1104	1-216-053-00	RES,CHIP	1.5K 5% 1/10W
R1049	1-216-650-11	METAL CHIP	910 0.50% 1/10W	R1105	1-216-073-00	RES,CHIP	10K 5% 1/10W
R1050	1-216-077-00	"RES,CHIP"	15K 5% 1/10W	R1106	1-216-073-00	RES,CHIP	10K 5% 1/10W



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R1107	1-216-651-11	METAL CHIP	1K 0.50% 1/10W	R1168	1-216-073-00	RES,CHIP	10K 5% 1/10W
R1108	1-216-651-11	METAL CHIP	1K 0.50% 1/10W	R1169	1-216-073-00	RES,CHIP	10K 5% 1/10W
R1110	1-216-017-91	RES,CHIP	47 5% 1/10W	R1170	1-216-073-00	RES,CHIP	10K 5% 1/10W
R1111	1-216-017-91	RES,CHIP	47 5% 1/10W	R1171	1-216-073-00	RES,CHIP	10K 5% 1/10W
R1112	1-216-017-91	RES,CHIP	47 5% 1/10W				
R1113	1-216-017-91	RES,CHIP	47 5% 1/10W	R1200	1-216-041-00	RES,CHIP	470 5% 1/10W
R1114	1-216-017-91	RES,CHIP	47 5% 1/10W	R1201	1-216-055-00	RES,CHIP	1.8K 5% 1/10W
R1115	1-216-017-91	RES,CHIP	47 5% 1/10W	R1202	1-216-061-00	RES,CHIP	3.3K 5% 1/10W
R1116	1-216-017-91	RES,CHIP	47 5% 1/10W	R1203	1-216-645-11	METAL CHIP	560 0.50% 1/10W
R1117	1-216-017-91	RES,CHIP	47 5% 1/10W	R1204	1-216-687-11	METAL CHIP	33K 0.50% 1/10W
R1118	1-216-017-91	RES,CHIP	47 5% 1/10W	R1205	1-216-681-11	METAL CHIP	18K 0.50% 1/10W
R1119	1-216-017-91	RES,CHIP	47 5% 1/10W	R1206	1-216-049-91	RES,CHIP	1K 5% 1/10W
R1120	1-216-017-91	RES,CHIP	47 5% 1/10W	R1207	1-216-651-11	METAL CHIP	1K 0.50% 1/10W
R1121	1-216-017-91	RES,CHIP	47 5% 1/10W	R1208	1-216-651-11	METAL CHIP	1K 0.50% 1/10W
R1122	1-216-017-91	RES,CHIP	47 5% 1/10W	R1210	1-216-049-91	RES,CHIP	1K 5% 1/10W
R1123	1-216-017-91	RES,CHIP	47 5% 1/10W	R1211	1-216-095-00	RES,CHIP	82K 5% 1/10W
R1124	1-216-017-91	RES,CHIP	47 5% 1/10W	R1212	1-216-095-00	RES,CHIP	82K 5% 1/10W
R1125	1-216-017-91	RES,CHIP	47 5% 1/10W	R1213	1-216-081-00	RES,CHIP	22K 5% 1/10W
R1126	1-216-017-91	RES,CHIP	47 5% 1/10W	R1214	1-216-069-00	RES,CHIP	6.8K 5% 1/10W
R1127	1-216-017-91	RES,CHIP	47 5% 1/10W	R1215	1-216-073-00	RES,CHIP	10K 5% 1/10W
R1128	1-216-017-91	RES,CHIP	47 5% 1/10W	R1216	1-216-073-00	RES,CHIP	10K 5% 1/10W
R1129	1-216-017-91	RES,CHIP	47 5% 1/10W	R1217	1-216-073-00	RES,CHIP	10K 5% 1/10W
R1130	1-216-017-91	RES,CHIP	47 5% 1/10W	R1218	1-216-073-00	RES,CHIP	10K 5% 1/10W
R1131	1-216-017-91	RES,CHIP	47 5% 1/10W	R1219	1-216-689-11	RES,CHIP	39K 5% 1/10W
R1132	1-216-017-91	RES,CHIP	47 5% 1/10W	R1220	1-216-689-11	RES,CHIP	39K 5% 1/10W
R1133	1-216-017-91	RES,CHIP	47 5% 1/10W	R1221	1-216-093-00	RES,CHIP	68K 5% 1/10W
R1134	1-216-607-11	METAL CHIP	15 0.50% 1/10W	R1222	1-216-093-00	RES,CHIP	68K 5% 1/10W
R1135	1-216-033-00	RES,CHIP	220 5% 1/10W	R1223	1-216-081-00	RES,CHIP	22K 5% 1/10W
R1140	1-216-073-00	RES,CHIP	10K 5% 1/10W	R1224	1-216-081-00	RES,CHIP	22K 5% 1/10W
R1141	1-216-073-00	RES,CHIP	10K 5% 1/10W	R1225	1-216-081-00	RES,CHIP	22K 5% 1/10W
R1142	1-216-073-00	RES,CHIP	10K 5% 1/10W	R1226	1-216-081-00	RES,CHIP	22K 5% 1/10W
R1143	1-216-073-00	RES,CHIP	10K 5% 1/10W	R1227	1-216-081-00	RES,CHIP	22K 5% 1/10W
R1144	1-216-073-00	RES,CHIP	10K 5% 1/10W	R1228	1-216-081-00	RES,CHIP	22K 5% 1/10W
R1145	1-216-073-00	RES,CHIP	10K 5% 1/10W	R1229	1-216-089-91	RES,CHIP	47K 5% 1/10W
R1146	1-216-073-00	RES,CHIP	10K 5% 1/10W	R1230	1-216-089-91	RES,CHIP	47K 5% 1/10W
R1147	1-216-073-00	RES,CHIP	10K 5% 1/10W	R1231	1-216-033-00	RES,CHIP	220 5% 1/10W
R1148	1-216-073-00	RES,CHIP	10K 5% 1/10W	R1232	1-216-081-00	RES,CHIP	22K 5% 1/10W
R1149	1-216-073-00	RES,CHIP	10K 5% 1/10W	R1233	1-216-001-00	RES,CHIP	10 5% 1/10W
R1150	1-216-073-00	RES,CHIP	10K 5% 1/10W	R1234	1-216-049-91	RES,CHIP	1K 5% 1/10W
R1151	1-216-073-00	RES,CHIP	10K 5% 1/10W	R1235	1-216-089-91	RES,CHIP	47K 5% 1/10W
R1152	1-216-073-00	RES,CHIP	10K 5% 1/10W	R1236	1-216-651-11	METAL CHIP	1K 0.50% 1/10W
R1153	1-216-073-00	RES,CHIP	10K 5% 1/10W	R1237	1-216-651-11	METAL CHIP	1K 0.50% 1/10W
R1154	1-216-073-00	RES,CHIP	10K 5% 1/10W	R1238	1-216-049-91	RES,CHIP	1K 5% 1/10W
R1155	1-216-073-00	RES,CHIP	10K 5% 1/10W	R1301	1-216-681-11	METAL CHIP	18K 0.50% 1/10W
R1156	1-216-073-00	RES,CHIP	10K 5% 1/10W	R1302	1-216-677-11	METAL CHIP	12K 0.50% 1/10W
R1157	1-216-073-00	RES,CHIP	10K 5% 1/10W	R1303	1-216-651-11	METAL CHIP	1K 0.50% 1/10W
R1158	1-216-073-00	RES,CHIP	10K 5% 1/10W	R1304	1-216-653-11	METAL CHIP	1.2K 0.50% 1/10W
R1159	1-216-073-00	RES,CHIP	10K 5% 1/10W	R1305	1-216-635-11	METAL CHIP	220 0.50% 1/10W
R1160	1-216-073-00	RES,CHIP	10K 5% 1/10W	R1306	1-216-635-11	METAL CHIP	220 0.50% 1/10W
R1161	1-216-073-00	RES,CHIP	10K 5% 1/10W	R1307	1-216-651-11	METAL CHIP	1K 0.50% 1/10W
R1162	1-216-073-00	RES,CHIP	10K 5% 1/10W	R1308	1-216-651-11	METAL CHIP	1K 0.50% 1/10W
R1163	1-216-073-00	RES,CHIP	10K 5% 1/10W	R1309	1-216-035-00	RES,CHIP	270 5% 1/10W
R1164	1-216-073-00	RES,CHIP	10K 5% 1/10W	R1310	1-216-649-11	METAL CHIP	820 0.50% 1/10W
R1165	1-216-073-00	RES,CHIP	10K 5% 1/10W	R1311	1-216-624-11	METAL CHIP	75 0.50% 1/10W
R1166	1-216-073-00	RES,CHIP	10K 5% 1/10W	R1312	1-216-651-11	METAL CHIP	1K 0.50% 1/10W
R1167	1-216-073-00	RES,CHIP	10K 5% 1/10W	R1313	1-216-685-11	METAL CHIP	27K 0.50% 1/10W
				R1314	1-216-640-11	METAL CHIP	360 0.50% 1/10W



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R1315	1-216-677-11	METAL CHIP 12K	0.50% 1/10W	R1529	1-216-033-00	RES,CHIP 220	5% 1/10W
R1316	1-216-663-11	METAL CHIP 3.3K	0.50% 1/10W	R1530	1-216-089-91	RES,CHIP 47K	5% 1/10W
R1317	1-216-651-11	METAL CHIP 1K	0.50% 1/10W	R1531	1-216-295-91	SHORT 0	
R1318	1-216-681-11	METAL CHIP 18K	0.50% 1/10W	R1532	1-216-033-00	RES,CHIP 220	5% 1/10W
R1319	1-216-677-11	METAL CHIP 12K	0.50% 1/10W	R1533	1-216-133-00	RES,CHIP 3.3M	5% 1/10W
R1320	1-216-651-11	METAL CHIP 1K	0.50% 1/10W	R1534	1-216-644-11	METAL CHIP 510	0.50% 1/10W
R1321	1-216-647-11	METAL CHIP 680	0.50% 1/10W	R1535	1-216-057-00	RES,CHIP 2.2K	5% 1/10W
R1322	1-216-623-11	METAL CHIP 68	0.50% 1/10W	R1541	1-216-097-91	RES,CHIP 100K	5% 1/10W
R1323	1-216-649-11	METAL CHIP 820	0.50% 1/10W	R1542	1-216-059-00	RES,CHIP 2.7K	5% 1/10W
R1324	1-216-677-11	METAL CHIP 12K	0.50% 1/10W	R1543	1-216-031-00	RES,CHIP 180	5% 1/10W
R1325	1-216-681-11	METAL CHIP 18K	0.50% 1/10W	R1544	1-216-057-00	RES,CHIP 2.2K	5% 1/10W
R1326	1-216-651-11	METAL CHIP 1K	0.50% 1/10W	R1545	1-216-071-00	RES,CHIP 8.2K	5% 1/10W
R1327	1-216-631-11	METAL CHIP 150	0.50% 1/10W	R1548	1-218-755-11	METAL CHIP 130K	0.50% 1/10W
R1328	1-216-651-11	METAL CHIP 1K	0.50% 1/10W	R1549	1-216-113-00	RES,CHIP 470K	5% 1/10W
R1329	1-216-681-11	METAL CHIP 18K	0.50% 1/10W	R1550	1-216-113-00	RES,CHIP 470K	5% 1/10W
R1330	1-216-677-11	METAL CHIP 12K	0.50% 1/10W	R1551	1-216-037-00	RES,CHIP 330	5% 1/10W
R1331	1-216-651-11	METAL CHIP 1K	0.50% 1/10W	R1552	1-216-073-00	RES,CHIP 10K	5% 1/10W
R1332	1-216-662-11	METAL CHIP 3K	0.50% 1/10W	R1553	1-216-095-00	RES,CHIP 82K	5% 1/10W
R1333	1-216-649-11	METAL CHIP 820	0.50% 1/10W	R1554	1-216-121-91	RES,CHIP 1M	5% 1/10W
R1334	1-216-635-11	METAL CHIP 220	0.50% 1/10W	R1555	1-216-121-91	RES,CHIP 1M	5% 1/10W
R1335	1-216-641-11	METAL CHIP 390	0.50% 1/10W	R1556	1-216-089-91	RES,CHIP 47K	5% 1/10W
R1336	1-216-651-11	METAL CHIP 1K	0.50% 1/10W	R1557	1-216-089-91	RES,CHIP 47K	5% 1/10W
R1337	1-216-685-11	METAL CHIP 27K	0.50% 1/10W	R1558	1-216-295-91	SHORT 0	
R1338	1-216-677-11	METAL CHIP 12K	0.50% 1/10W	R1564	1-218-761-11	METAL CHIP 240K	0.50% 1/10W
R1339	1-216-663-11	METAL CHIP 3.3K	0.50% 1/10W	R1565	1-216-681-11	METAL CHIP 18K	0.50% 1/10W
R1340	1-216-651-11	METAL CHIP 1K	0.50% 1/10W	R1566	1-216-113-00	RES,CHIP 470K	5% 1/10W
R1341	1-216-651-11	METAL CHIP 1K	0.50% 1/10W	R1567	1-216-653-11	METAL CHIP 1.2K	0.50% 1/10W
R1342	1-216-647-11	METAL CHIP 680	0.50% 1/10W	R1568	1-216-049-91	RES,CHIP 1K	5% 1/10W
R1343	1-216-647-11	METAL CHIP 680	0.50% 1/10W	R1569	1-216-089-91	RES,CHIP 47K	5% 1/10W
R1344	1-216-651-11	METAL CHIP 1K	0.50% 1/10W	R1570	1-216-025-91	RES,CHIP 100	5% 1/10W
R1345	1-216-697-91	METAL CHIP 82K	0.50% 1/10W	<VARIABLE RESISTOR>			
R1346	1-216-065-91	RES,CHIP 4.7K	5% 1/10W	RV701	1-238-087-11	RES, ADJ CERMET 1K (TRACON Y IN)	
R1500	1-216-657-11	METAL CHIP 1.8K	0.50% 1/10W	RV703	1-238-090-11	RES, ADJ CERMET 10K (WB Y IN)	
R1501	1-216-117-00	RES,CHIP 680K	5% 1/10W	RV704	1-238-087-11	RES, ADJ CERMET 1K (TRACON Y IN)	
R1506	1-216-017-91	RES,CHIP 47	5% 1/10W	RV705	1-238-087-11	RES, ADJ CERMET 1K	
R1507	1-216-079-00	RES,CHIP 18K	5% 1/10W	RV706	1-238-087-11	RES, ADJ CERMET 1K (TRACON Y IN)	
R1508	1-216-077-00	RES,CHIP 15K	5% 1/10W	RV10011-238-240-11	RES, ADJ, CERMET 220		
R1509	1-216-025-91	RES,CHIP 100	5% 1/10W	RV10021-238-240-11	RES, ADJ, CERMET 220		
R1510	1-216-055-00	RES,CHIP 1.8K	5% 1/10W	RV13011-238-086-11	RES, ADJ, CERMET 470 (WB Y IN)		
R1511	1-216-001-00	RES,CHIP 10	5% 1/10W	RV13021-238-086-11	RES, ADJ, CERMET 470 (WB Y IN)		
R1512	1-216-043-91	RES,CHIP 560	5% 1/10W	<TEST PIN>			
R1513	1-216-061-00	RES,CHIP 3.3K	5% 1/10W	TP1	1-535-757-11	CHIP, CHECKER	
R1514	1-216-041-00	RES,CHIP 470	5% 1/10W	TP2	1-535-757-11	CHIP, CHECKER	
R1515	1-216-073-00	RES,CHIP 10K	5% 1/10W	TP3	1-535-757-11	CHIP, CHECKER	
R1516	1-216-077-00	RES,CHIP 15K	5% 1/10W	TP4	1-535-757-11	CHIP, CHECKER	
R1517	1-216-067-00	RES,CHIP 5.6K	5% 1/10W	TP5	1-535-757-11	CHIP, CHECKER	
R1518	1-216-057-00	RES,CHIP 2.2K	5% 1/10W	TP6	1-535-757-11	CHIP, CHECKER	
R1519	1-216-047-91	RES,CHIP 820	5% 1/10W	TP7	1-535-757-11	CHIP, CHECKER	
R1520	1-216-001-00	RES,CHIP 10	5% 1/10W	TP8	1-535-757-11	CHIP, CHECKER	
R1521	1-216-295-91	SHORT 0		TP9	1-535-757-11	CHIP, CHECKER	
R1523	1-216-653-11	METAL CHIP 1.2K	0.50% 1/10W	TP10	1-535-757-11	CHIP, CHECKER	
R1524	1-216-651-11	METAL CHIP 1K	0.50% 1/10W	TP11	1-535-757-11	CHIP, CHECKER	
R1525	1-216-049-91	RES,CHIP 1K	5% 1/10W				
R1526	1-216-295-91	SHORT 0					
R1527	1-216-049-91	RES,CHIP 1K	5% 1/10W				
R1528	1-216-089-91	RES,CHIP 47K	5% 1/10W				







Les composants identifiés par un tramé et une marque  $\Delta$  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

The components identified by shading and mark  $\Delta$  are critical for safety. Replace only with part number specified.

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
D602	8-719-045-99	ZENER DIODE RD2.2M-T1B		<RESISTOR>			
D603	8-719-045-99	ZENER DIODE RD2.2M-T1B		R600 $\Delta$	1-202-881-51	SOLID 470K 20% 1/2W	
D604	8-719-404-49	DIODE MA111		R601	1-202-933-61	FUSIBLE 0.1 10% 1/2W	F
D605	8-719-045-99	ZENER DIODE RD2.2M-T1B		R602	1-220-318-11	RES,CHIP 270K 5% 1/4W	
D606	8-719-045-99	ZENER DIODE RD2.2M-T1B		R603	1-220-318-11	RES,CHIP 270K 5% 1/4W	
D607	8-719-404-49	DIODE MA111		R604	1-220-318-11	RES,CHIP 270K 5% 1/4W	
D651	8-719-048-60	DIODE F10P03QL		R605	1-220-318-11	RES,CHIP 270K 5% 1/4W	
D652	8-719-510-13	DIODE D10SC4MR		R606	1-220-233-11	RES,CHIP 3.9 10% 1/4W	
D653	8-719-510-02	DIODE D1NS4		R607	1-220-233-11	RES,CHIP 3.9 10% 1/4W	
D654	8-719-510-02	DIODE D1NS4		R610	1-212-942-00	FUSIBLE 2.2 5% 1/2W	F
D655	8-719-160-68	ZENER DIODE RD18FB2		R650	1-216-025-91	RES,CHIP 100 5% 1/10W	
D671	8-719-051-01	DIODE CL-170HR-CD-T		R651	1-216-073-00	RES,CHIP 10K 5% 1/10W	
D672	8-719-053-31	DIODE CL-170YG-CD-T		R655	1-216-097-91	RES,CHIP 100K 5% 1/10W	
D673	8-719-404-49	DIODE MA111		R656	1-216-655-11	METAL CHIP 1.5K 0.50% 1/10W	
<FUSE>				R657	1-216-655-11	METAL CHIP 1.5K 0.50% 1/10W	
F601 $\Delta$	1-576-228-11	FUSE (H.B.C.) (2A/250V)		R658	1-216-025-91	RES,CHIP 100 5% 1/10W	
	1-533-223-11	CLIP, FUSE; F601		R659	1-216-049-91	RES,CHIP 1K 5% 1/10W	
	* 4-052-843-01	COVER, FUSE; F601		R661	1-219-116-11	METAL 0.01 10% 2W	
<FERRITE BEAD>				R662	1-216-073-00	RES,CHIP 10K 5% 1/10W	
FB601	1-410-396-41	FERRITE 0.45UH		R663	1-216-073-00	RES,CHIP 10K 5% 1/10W	
FB602	1-410-396-41	FERRITE 0.45UH		R664	1-216-073-00	RES,CHIP 10K 5% 1/10W	
FB603	1-410-396-41	FERRITE 0.45UH		R665	1-216-073-00	RES,CHIP 10K 5% 1/10W	
FB604	1-410-396-41	FERRITE 0.45UH		R666	1-207-616-00	WIREWOUND 0.47 10% 2W	F
<IC>				R667	1-216-049-91	RES,CHIP 1K 5% 1/10W	
IC650	8-759-198-31	IC UPC1093J-1-T		R668	1-216-065-91	RES,CHIP 4.7K 5% 1/10W	
IC670	8-759-100-93	IC UPC393G2		R669	1-216-057-00	RES,CHIP 2.2K 5% 1/10W	
IC671	8-759-144-82	IC UPC2405HF		R670	1-216-049-91	RES,CHIP 1K 5% 1/10W	
IC672	8-759-346-27	IC LM45BIM3X		R671	1-216-393-00	WIREWOUND 2.2 10% 2W	F
<COIL>				R672	1-216-065-91	RES,CHIP 4.7K 5% 1/10W	
L651	1-414-158-11	INDUCTOR 2.2UH		R673	1-216-065-91	RES,CHIP 4.7K 5% 1/10W	
L652	1-412-523-41	INDUCTOR 6.8UH		R674	1-216-049-91	RES,CHIP 1K 5% 1/10W	
L653	1-412-523-41	INDUCTOR 6.8UH		R676	1-216-049-91	RES,CHIP 1K 5% 1/10W	
<TRANSISTOR>				R677	1-216-049-91	RES,CHIP 1K 5% 1/10W	
Q601	8-729-026-13	TRANSISTOR 2SC4833S-P2		R678	1-216-033-00	RES,CHIP 220 5% 1/10W	
Q602	8-729-026-13	TRANSISTOR 2SC4833S-P2		R679	1-216-049-91	RES,CHIP 1K 5% 1/10W	
Q650	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		R680	1-216-073-00	RES,CHIP 10K 5% 1/10W	
Q660	8-729-019-42	TRANSISTOR 2SK2084STL		R681	1-216-025-91	RES,CHIP 100 5% 1/10W	
Q661	8-729-019-42	TRANSISTOR 2SK2084STL		R682	1-216-025-91	RES,CHIP 100 5% 1/10W	
Q662	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		R683	1-216-065-91	RES,CHIP 4.7K 5% 1/10W	
Q663	8-729-824-34	TRANSISTOR 2SJ187		R684	1-216-049-91	RES,CHIP 1K 5% 1/10W	
Q664	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		R685	1-216-041-00	RES,CHIP 470 5% 1/10W	
Q670	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		R686	1-216-041-00	RES,CHIP 470 5% 1/10W	
Q671	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R687	1-216-065-91	RES,CHIP 4.7K 5% 1/10W	
Q672	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R688	1-216-065-91	RES,CHIP 4.7K 5% 1/10W	
<TRANSFORMER>				R690	1-216-065-91	RES,CHIP 4.7K 5% 1/10W	
				R691	1-216-049-91	RES,CHIP 1K 5% 1/10W	
				T601 $\Delta$	1-424-117-11	FILTER, LINE	
				T602	1-427-864-11	TRANSFORMER, CONVERTER (PRT)	
				T603	1-429-291-11	TRANSFORMER, CONVERTER (PIT)	



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
<VARISTOR>				D125	8-719-404-49	DIODE MA111	
VDR6011-810-974-21 VARISTOR				D126	8-719-404-49	DIODE MA111	
*****				D127	8-719-404-49	DIODE MA111	
				D128	8-719-033-86	DIODE CL-170D-CD-T	
				D129	8-719-033-86	DIODE CL-170D-CD-T	
				D130	8-719-033-86	DIODE CL-170D-CD-T	
				D131	8-719-033-86	DIODE CL-170D-CD-T	
				D132	8-719-033-86	DIODE CL-170D-CD-T	
H1 BOARD, COMPLETE				D133	8-719-033-86	DIODE CL-170D-CD-T	
*****				D134	8-719-033-86	DIODE CL-170D-CD-T	
<CAPACITOR>				D135	8-719-033-86	DIODE CL-170D-CD-T	
C101	1-124-779-00	ELECT CHIP 10MF	20% 16V	D136	8-719-033-86	DIODE CL-170D-CD-T	
C102	1-163-038-91	CERAMIC CHIP 0.1MF	25V	D137	8-719-033-86	DIODE CL-170D-CD-T	
C103	1-163-251-11	CERAMIC CHIP 100PF	5% 50V	D138	8-719-033-86	DIODE CL-170D-CD-T	
C104	1-163-243-11	CERAMIC CHIP 47PF	5% 50V	D139	8-719-033-86	DIODE CL-170D-CD-T	
C105	1-163-243-11	CERAMIC CHIP 47PF	5% 50V	D140	8-719-033-86	DIODE CL-170D-CD-T	
C106	1-163-243-11	CERAMIC CHIP 47PF	5% 50V	D141	8-719-033-86	DIODE CL-170D-CD-T	
C107	1-163-243-11	CERAMIC CHIP 47PF	5% 50V	D142	8-719-053-31	DIODE CL-170YG-CD-T	
C108	1-163-243-11	CERAMIC CHIP 47PF	5% 50V	D143	8-719-033-86	DIODE CL-170D-CD-T	
C109	1-163-038-91	CERAMIC CHIP 0.1MF	25V	D144	8-719-033-86	DIODE CL-170D-CD-T	
C110	1-124-779-00	ELECT CHIP 10MF	20% 16V	D145	8-719-033-86	DIODE CL-170D-CD-T	
C111	1-163-235-11	CERAMIC CHIP 22PF	5% 50V	D147	8-719-033-86	DIODE CL-170D-CD-T	
C112	1-163-235-11	CERAMIC CHIP 22PF	5% 50V	D148	8-719-033-86	DIODE CL-170D-CD-T	
C114	1-163-038-91	CERAMIC CHIP 0.1MF	25V	D149	8-719-404-49	DIODE MA111	
C115	1-163-038-91	CERAMIC CHIP 0.1MF	25V	D150	8-719-158-15	ZENER DIODE RD5.6SB	
C116	1-124-779-00	ELECT CHIP 10MF	20% 16V	D151	8-719-158-15	ZENER DIODE RD5.6SB	
C117	1-164-161-11	CERAMIC CHIP 0.0022MF	10% 50V	D152	8-719-158-15	ZENER DIODE RD5.6SB	
C118	1-164-161-11	CERAMIC CHIP 0.0022MF	10% 50V	D153	8-719-158-15	ZENER DIODE RD5.6SB	
C119	1-164-161-11	CERAMIC CHIP 0.0022MF	10% 50V	D154	8-719-158-15	ZENER DIODE RD5.6SB	
C120	1-164-161-11	CERAMIC CHIP 0.0022MF	10% 50V	D155	8-719-158-15	ZENER DIODE RD5.6SB	
C121	1-124-779-00	ELECT CHIP 10MF	20% 16V	D156	8-719-158-15	ZENER DIODE RD5.6SB	
C122	1-124-779-00	ELECT CHIP 10MF	20% 16V	D157	8-719-158-15	ZENER DIODE RD5.6SB	
C123	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	D158	8-719-158-15	ZENER DIODE RD5.6SB	
C124	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	D159	8-719-158-15	ZENER DIODE RD5.6SB	
C130	1-124-778-00	ELECT CHIP 22MF	20% 6.3V	D160	8-719-158-15	ZENER DIODE RD5.6SB	
<CONNECTOR>				D161	8-719-158-15	ZENER DIODE RD5.6SB	
CN101	1-774-117-21	PIN, CONNECTOR 12P		D162	8-719-158-15	ZENER DIODE RD5.6SB	
CN103	1-774-198-11	CONNECTOR, FPC (ZIF) 10P		D163	8-719-158-15	ZENER DIODE RD5.6SB	
<DIODE>				D164	8-719-158-15	ZENER DIODE RD5.6SB	
D113	8-719-800-76	DIODE 1SS226		D165	8-719-158-15	ZENER DIODE RD5.6SB	
D114	8-719-800-76	DIODE 1SS226		D166	8-719-158-15	ZENER DIODE RD5.6SB	
D115	8-719-800-76	DIODE 1SS226		D167	8-719-158-15	ZENER DIODE RD5.6SB	
D116	8-719-800-76	DIODE 1SS226		D168	8-719-158-15	ZENER DIODE RD5.6SB	
D117	8-719-800-76	DIODE 1SS226		D169	8-719-033-86	DIODE CL-170D-CD-T	
D118	8-719-800-76	DIODE 1SS226		D170	8-719-404-49	DIODE MA111	
D119	8-719-800-76	DIODE 1SS226		D171	8-719-033-86	DIODE CL-170D-CD-T	
D120	8-719-404-49	DIODE MA111		<IC>			
D121	8-719-404-49	DIODE MA111		IC102	8-759-467-84	IC MC68HC05P6SC442119B	
D122	8-719-404-49	DIODE MA111		IC103	8-759-342-19	IC NJU3716M-T2	
D123	8-719-404-49	DIODE MA111		IC104	8-759-342-19	IC NJU3716M-T2	
D124	8-719-404-49	DIODE MA111		IC105	8-748-035-08	RAY CATCHER ELEMENT SBX8035-H	



# DSC-1024HD



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
		<COIL>					
L101	1-408-785-21	INDUCTOR CHIP	47UH	R150	1-216-049-91	RES,CHIP 1K	5% 1/10W
		<TRANSISTOR>		R151	1-216-025-91	RES,CHIP 100	5% 1/10W
Q101	1-801-806-11	TRANSISTOR DTC144EKA-T146		R153	1-216-033-00	RES,CHIP 220	5% 1/10W
Q102	1-801-806-11	TRANSISTOR DTC144EKA-T146		R154	1-216-033-00	RES,CHIP 220	5% 1/10W
Q103	8-729-027-46	TRANSISTOR DTC114YKA-T146		R155	1-216-025-91	RES,CHIP 100	5% 1/10W
		<RESISTOR>					
R101	1-216-017-91	RES,CHIP 47	5% 1/10W	R156	1-216-025-91	RES,CHIP 100	5% 1/10W
R102	1-216-017-91	RES,CHIP 47	5% 1/10W	R157	1-216-025-91	RES,CHIP 100	5% 1/10W
R103	1-216-017-91	RES,CHIP 47	5% 1/10W	R158	1-216-025-91	RES,CHIP 100	5% 1/10W
R104	1-216-017-91	RES,CHIP 47	5% 1/10W	R159	1-216-025-91	RES,CHIP 100	5% 1/10W
R105	1-216-017-91	RES,CHIP 47	5% 1/10W	R160	1-216-025-91	RES,CHIP 100	5% 1/10W
R106	1-216-049-91	RES,CHIP 1K	5% 1/10W	R161	1-216-025-91	RES,CHIP 100	5% 1/10W
R107	1-216-049-91	RES,CHIP 1K	5% 1/10W	R162	1-216-025-91	RES,CHIP 100	5% 1/10W
R108	1-216-049-91	RES,CHIP 1K	5% 1/10W	R163	1-216-033-00	RES,CHIP 220	5% 1/10W
R109	1-216-049-91	RES,CHIP 1K	5% 1/10W				
R110	1-216-049-91	RES,CHIP 1K	5% 1/10W	<SWITCH>			
				S101	1-762-357-11	SWITCH (PWR)	
R112	1-216-057-00	RES,CHIP 2.2K	5% 1/10W	S102	1-762-357-11	SWITCH (DSP)	
R113	1-216-049-91	RES,CHIP 1K	5% 1/10W	S103	1-762-357-11	SWITCH (TST)	
R114	1-216-049-91	RES,CHIP 1K	5% 1/10W	S104	1-762-357-11	SWITCH (LD)	
R115	1-216-025-91	RES,CHIP 100	5% 1/10W	S105	1-762-357-11	SWITCH (OUT)	
R117	1-216-073-00	RES,CHIP 10K	5% 1/10W				
				S106	1-570-724-11	SWITCH, SLIDE (TV/PJ/OFF)	
R118	1-216-133-00	RES,CHIP 3.3M	5% 1/10W				
R119	1-216-133-00	RES,CHIP 3.3M	5% 1/10W	<CRYSTAL>			
R120	1-216-133-00	RES,CHIP 3.3M	5% 1/10W	X101	1-567-192-11	OSCILLATOR, CERAMIC	
R121	1-216-089-91	RES,CHIP 47K	5% 1/10W				
R122	1-216-089-91	RES,CHIP 47K	5% 1/10W				
R123	1-216-033-00	RES,CHIP 220	5% 1/10W				
R124	1-216-033-00	RES,CHIP 220	5% 1/10W				
R125	1-216-033-00	RES,CHIP 220	5% 1/10W				
R126	1-216-033-00	RES,CHIP 220	5% 1/10W				
R127	1-216-033-00	RES,CHIP 220	5% 1/10W				
R128	1-216-033-00	RES,CHIP 220	5% 1/10W				
R129	1-216-033-00	RES,CHIP 220	5% 1/10W				
R130	1-216-033-00	RES,CHIP 220	5% 1/10W				
R131	1-216-033-00	RES,CHIP 220	5% 1/10W				
R132	1-216-033-00	RES,CHIP 220	5% 1/10W				
R133	1-216-033-00	RES,CHIP 220	5% 1/10W				
R134	1-216-033-00	RES,CHIP 220	5% 1/10W				
R135	1-216-033-00	RES,CHIP 220	5% 1/10W				
R136	1-216-033-00	RES,CHIP 220	5% 1/10W				
R138	1-216-033-00	RES,CHIP 220	5% 1/10W				
R139	1-216-041-00	RES,CHIP 470	5% 1/10W				
R140	1-216-041-00	RES,CHIP 470	5% 1/10W				
R141	1-216-041-00	RES,CHIP 470	5% 1/10W				
R143	1-216-041-00	RES,CHIP 470	5% 1/10W				
R144	1-216-041-00	RES,CHIP 470	5% 1/10W				
R145	1-216-049-91	RES,CHIP 1K	5% 1/10W				
R146	1-216-049-91	RES,CHIP 1K	5% 1/10W				
R147	1-216-049-91	RES,CHIP 1K	5% 1/10W				
R148	1-216-049-91	RES,CHIP 1K	5% 1/10W				
R149	1-216-049-91	RES,CHIP 1K	5% 1/10W				

6-25

K<sub>2</sub>

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
C852	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	R817	1-216-624-11	METAL CHIP 75	0.50%1/10W
<CONNECTOR>				R818	1-216-053-00	RES,CHIP 1.5K	5% 1/10W
CN801	1-562-748-11	HOUSING, CONNECTOR 15P		R819	1-216-053-00	RES,CHIP 1.5K	5% 1/10W
CN802	1-562-748-11	HOUSING, CONNECTOR 15P		R820	1-216-667-11	METAL CHIP 4.7K	0.50%1/10W
CN803	1-562-748-11	HOUSING, CONNECTOR 15P		R821	1-216-624-11	METAL CHIP 75	0.50%1/10W
CN812	1-774-939-11	SOCKET, DIN (4P)		R822	1-216-667-11	METAL CHIP 4.7K	0.50%1/10W
<DIODE>				R823	1-216-667-11	METAL CHIP 4.7K	0.50%1/10W
D802	8-719-800-76	DIODE 1SS226		R824	1-216-667-11	METAL CHIP 4.7K	0.50%1/10W
D804	8-719-800-76	DIODE 1SS226		R825	1-216-624-11	METAL CHIP 75	0.50%1/10W
D806	8-719-800-76	DIODE 1SS226		R826	1-216-624-11	METAL CHIP 75	0.50%1/10W
D807	8-719-800-76	DIODE 1SS226		R827	1-216-624-11	METAL CHIP 75	0.50%1/10W
D808	8-719-800-76	DIODE 1SS226		R828	1-216-121-91	RES,CHIP 1M	5% 1/10W
D809	8-719-800-76	DIODE 1SS226		R829	1-216-121-91	RES,CHIP 1M	5% 1/10W
D810	8-719-800-76	DIODE 1SS226		R830	1-216-627-11	METAL CHIP 100	0.50%1/10W
D811	8-719-800-76	DIODE 1SS226		R831	1-216-121-91	RES,CHIP 1M	5% 1/10W
D812	8-719-800-76	DIODE 1SS226		R832	1-216-049-91	"RES,CHIP" 1K	5% 1/10W
D813	8-719-976-96	ZENER DIODE DTZ4.7C		R833	1-216-025-91	"RES,CHIP" 100	5% 1/10W
D814	8-719-976-96	ZENER DIODE DTZ4.7C		R834	1-216-624-11	METAL CHIP 75	0.50%1/10W
D815	8-719-976-96	ZENER DIODE DTZ4.7C		R835	1-216-624-11	METAL CHIP 75	0.50%1/10W
D816	8-719-976-96	ZENER DIODE DTZ4.7C		R836	1-216-624-11	METAL CHIP 75	0.50%1/10W
D817	8-719-976-96	ZENER DIODE DTZ4.7C		R837	1-216-667-11	METAL CHIP 4.7K	0.50%1/10W
D818	8-719-976-96	ZENER DIODE DTZ4.7C		R838	1-216-624-11	METAL CHIP 75	0.50%1/10W
D819	8-719-976-96	ZENER DIODE DTZ4.7C		R839	1-216-667-11	METAL CHIP 4.7K	0.50%1/10W
D820	8-719-976-96	ZENER DIODE DTZ4.7C		R840	1-216-661-11	METAL CHIP 2.7K	0.50%1/10W
<IC>				R841	1-216-661-11	METAL CHIP 2.7K	0.50%1/10W
IC801	8-759-358-46	IC MM1114XFBE		R842	1-216-661-11	METAL CHIP 2.7K	0.50%1/10W
IC802	8-759-358-46	IC MM1114XFBE		R843	1-216-661-11	METAL CHIP 2.7K	0.50%1/10W
IC803	8-759-446-66	IC MM1113XFBE		R844	1-216-049-91	RES,CHIP 1K	5% 1/10W
IC804	8-759-387-75	IC TC7W00F(TE12R)		R845	1-216-049-91	RES,CHIP 1K	5% 1/10W
IC805	8-759-387-75	IC TC7W00F(TE12R)		R846	1-216-049-91	RES,CHIP 1K	5% 1/10W
IC806	8-759-242-68	IC TC7W32F		R847	1-216-049-91	RES,CHIP 1K	5% 1/10W
IC807	8-759-242-74	IC TC7W04F		R848	1-216-049-91	RES,CHIP 1K	5% 1/10W
IC808	8-759-360-07	IC BA7657F-E2		R849	1-216-049-91	RES,CHIP 1K	5% 1/10W
IC809	8-759-186-51	IC TC74VHC157F		<SWITCH>			
IC810	8-759-242-64	IC TC4W53F		S801	1-762-669-11	SWITCH, SLIDE (75 TERM – OPEN)	
IC811	8-759-242-64	IC TC4W53F		S802	1-692-467-11	SWITCH, SLIDE (RGB – Y/B/-Y/R-Y)	
<TRANSISTOR>				S803	1-692-467-11	SWITCH, SLIDE (AUTO – SOG)	
Q801	8-729-120-28	TRANSISTOR 2SC1623-L5L6		S804	1-692-467-11	SWITCH, SLIDE (SEP – COMP)	
Q802	8-729-120-28	TRANSISTOR 2SC1623-L5L6		S805	1-692-467-11	SWITCH, SLIDE (RGB – Y/B/-Y/R-Y)	
<RESISTOR>				S806	1-762-669-11	SWITCH, SLIDE (75 TERM – OPEN)	
R801	1-216-624-11	METAL CHIP 75	0.50%1/10W	S807	1-692-467-11	SWITCH, SLIDE	
R803	1-216-624-11	METAL CHIP 75	0.50%1/10W			(NORMAL – COMPOSIT VIDEO)	
R804	1-216-624-11	METAL CHIP 75	0.50%1/10W	S808	1-692-467-11	SWITCH, SLIDE (RGB – Y/B/-Y/R-Y)	
R810	1-216-667-11	METAL CHIP 4.7K	0.50%1/10W	<TERMINAL BOARD>			
R813	1-216-624-11	METAL CHIP 75	0.50%1/10W	TB801	1-694-093-21	TERMINAL BOARD ASSY, I/O	
R815	1-216-624-11	METAL CHIP 75	0.50%1/10W	TB802	1-694-094-11	TERMINAL BOARD ASSY, I/O	



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
		K1 BOARD, COMPLETE *****		J702	1-778-014-11	JACK BLOCK, PIN 2P	
				J703	1-778-014-11	JACK BLOCK, PIN 2P	
				J704	1-778-014-11	JACK BLOCK, PIN 2P	
				J705	1-507-800-00	JACK	
				J706	1-507-800-00	JACK	
		<CAPACITOR>				<TRANSISTOR>	
C701	1-126-157-11	ELECT 10MF 20% 16V		Q702	1-801-806-11	TRANSISTOR DTC144EKA-T146	
C702	1-126-157-11	ELECT 10MF 20% 16V		Q703	1-801-806-11	TRANSISTOR DTC144EKA-T146	
C703	1-126-157-11	ELECT 10MF 20% 16V		Q704	8-729-027-38	TRANSISTOR DTA144EKA-T146	
C704	1-126-157-11	ELECT 10MF 20% 16V		Q705	8-729-027-46	TRANSISTOR DTC114YKA-T146	
C705	1-126-157-11	ELECT 10MF 20% 16V		Q710	8-729-027-46	TRANSISTOR DTC114YKA-T146	
				Q711	8-729-027-46	TRANSISTOR DTC114YKA-T146	
C706	1-126-157-11	ELECT 10MF 20% 16V				<RESISTOR>	
C707	1-124-589-11	ELECT 47MF 20% 16V		R701	1-216-049-91	RES,CHIP 1K 5% 1/10W	
C708	1-124-589-11	ELECT 47MF 20% 16V		R702	1-216-049-91	RES,CHIP 1K 5% 1/10W	
C709	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V		R703	1-216-113-00	RES,CHIP 470K 5% 1/10W	
C710	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V		R704	1-216-113-00	RES,CHIP 470K 5% 1/10W	
				R705	1-216-049-91	RES,CHIP 1K 5% 1/10W	
C711	1-124-248-00	ELECT 22MF 20% 35V		R706	1-216-049-91	RES,CHIP 1K 5% 1/10W	
C713	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V		R707	1-216-113-00	RES,CHIP 470K 5% 1/10W	
C714	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V		R708	1-216-113-00	RES,CHIP 470K 5% 1/10W	
C715	1-124-589-11	ELECT 47MF 20% 16V		R709	1-216-049-91	RES,CHIP 1K 5% 1/10W	
C716	1-124-589-11	ELECT 47MF 20% 16V		R710	1-216-049-91	RES,CHIP 1K 5% 1/10W	
C717	1-124-584-00	ELECT 100MF 20% 10V		R711	1-216-113-00	RES,CHIP 470K 5% 1/10W	
		<CONNECTOR>		R712	1-216-113-00	RES,CHIP 470K 5% 1/10W	
		CN701*1-764-093-21 PIN, CONNECTOR (PC BOARD) 8P		R713	1-216-049-91	RES,CHIP 1K 5% 1/10W	
				R714	1-216-049-91	RES,CHIP 1K 5% 1/10W	
		<DIODE>		R715	1-216-113-00	RES,CHIP 470K 5% 1/10W	
D701	8-719-800-76	DIODE 1SS226		R716	1-216-113-00	RES,CHIP 470K 5% 1/10W	
D702	8-719-800-76	DIODE 1SS226		R719	1-216-089-91	RES,CHIP 47K 5% 1/10W	
D703	8-719-800-76	DIODE 1SS226		R720	1-216-073-00	RES,CHIP 10K 5% 1/10W	
D704	8-719-800-76	DIODE 1SS226		R721	1-216-049-91	RES,CHIP 1K 5% 1/10W	
D705	8-719-800-76	DIODE 1SS226		R722	1-216-025-91	RES,CHIP 100 5% 1/10W	
D706	8-719-800-76	DIODE 1SS226		R723	1-216-057-00	RES,CHIP 2.2K 5% 1/10W	
D707	8-719-158-15	ZENER DIODE RD5.6SB		R724	1-216-049-91	RES,CHIP 1K 5% 1/10W	
D708	8-719-158-15	ZENER DIODE RD5.6SB		R725	1-216-049-91	RES,CHIP 1K 5% 1/10W	
D709	8-719-404-49	DIODE MA111		R726	1-216-097-91	RES,CHIP 100K 5% 1/10W	
				R727	1-216-081-00	RES,CHIP 22K 5% 1/10W	
		<FERRITE BEAD>		R728	1-216-049-91	RES,CHIP 1K 5% 1/10W	
FB201	1-414-234-22	INDUCTOR CHIP		R729	1-216-073-00	RES,CHIP 10K 5% 1/10W	
FB202	1-414-234-22	INDUCTOR CHIP				*****	
FB203	1-414-234-22	INDUCTOR CHIP					
FB204	1-414-234-22	INDUCTOR CHIP					
FB205	1-414-234-22	INDUCTOR CHIP					
FB206	1-414-234-22	INDUCTOR CHIP					
		<IC>					
IC2101	8-759-446-66	IC MM1113XFBE					
IC2102	8-759-446-66	IC MM1113XFBE					
		<JACK>					
J701	1-778-014-11	JACK BLOCK, PIN 2P					

DSC-1024HD



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
J1 BOARD, COMPLETE *****				<RESISTOR>			
				R401	1-216-089-91	RES,CHIP 47K 5% 1/10W	
				R402	1-216-089-91	RES,CHIP 47K 5% 1/10W	
<CONNECTOR>				<SWITCH>			
CN301	1-774-198-11	CONNECTOR, FPC (ZIF) 10P		S401	1-572-921-11	SWITCH, KEY BOARD (HS+)	
				S402	1-572-921-11	SWITCH, KEY BOARD (HS-)	
<DIODE>				S403	1-572-921-11	SWITCH, KEY BOARD (VS+)	
D301	8-719-404-49	DIODE MA111		S404	1-572-921-11	SWITCH, KEY BOARD (VS-)	
D302	8-719-404-49	DIODE MA111		S405	1-572-921-11	SWITCH, KEY BOARD (ZM+)	
D303	8-719-404-49	DIODE MA111					
D304	8-719-404-49	DIODE MA111		S406	1-572-921-11	SWITCH, KEY BOARD (ZM-)	
D305	8-719-404-49	DIODE MA111					
D306	8-719-404-49	DIODE MA111					
<RESISTOR>							
R301	1-216-089-91	RES,CHIP 47K 5% 1/10W					
R302	1-216-089-91	RES,CHIP 47K 5% 1/10W					
<SWITCH>							
S301	1-572-921-11	SWITCH, KEY BOARD (HC+)					
S302	1-572-921-11	SWITCH, KEY BOARD (HC-)					
S303	1-572-921-11	SWITCH, KEY BOARD (VC+)					
S304	1-572-921-11	SWITCH, KEY BOARD (VC-)					
S305	1-572-921-11	SWITCH, KEY BOARD (MENU)					
S306	1-572-921-11	SWITCH, KEY BOARD (ENT)					
*****							
J2 BOARD, COMPLETE *****							
<CONNECTOR>							
CN401	1-774-198-11	CONNECTOR, FPC (ZIF) 10P					
<DIODE>							
D401	8-719-404-49	DIODE MA111					
D402	8-719-404-49	DIODE MA111					
D403	8-719-404-49	DIODE MA111					
D404	8-719-404-49	DIODE MA111					
D405	8-719-404-49	DIODE MA111					
D406	8-719-404-49	DIODE MA111					